

August 24, 2022
Atlas Project No. 95214880

Massachusetts Department of Environmental Protection

Bureau of Waste Site Cleanup
Northeast Regional Office
205B Lowell Street
Wilmington, MA 01887

**RE: Status Report to Maintain Remedy Operation Status
Mobil Station #1436
309 Lowell Street, Andover, MA
RTN 3-3072**

To Whom It May Concern:

On behalf of Global Companies LLC (Global), ATC Group Services LLC dba Atlas Technical (Atlas) has prepared this Status Report to Maintain Remedy Operation Status and Remedial Monitoring Report for the Disposal Site located at 309 Lowell Street in Andover, Massachusetts (hereinafter referred to as the "Site"). The Disposal Site is being tracked under MassDEP RTN 3-3072. Global assumed responsibility from ExxonMobil Corporation for the environmental response actions being conducted at the Site on September 8, 2010. A Conceptual Site Model (CSM), which includes a timeline of key regulatory dates, is included as Attachment I. A list of abbreviations and acronyms commonly associated with MCP reporting is included in Attachment II. A Site Locus Map is included as Figure 1, an Aerial Overview Plan is included as Figure 2, and a Site Plan, which depicts groundwater flow direction beneath the Site based on groundwater elevation data collected during the July 11, 2022 groundwater sampling event, is included as Figure 3.

1.0 QUARTERLY GROUNDWATER SAMPLING EVENTS

1.1 Groundwater Monitoring Program

Groundwater samples were collected from select monitoring wells on March 16, 2022 and July 11, 2022, and submitted to Con-Test Analytical Laboratory (Con-Test) of East Longmeadow, Massachusetts for laboratory analysis of VPH according to the MassDEP VPH Method. Additionally, all samples were submitted for analysis of methane, nitrate, sulfate, dissolved iron, and dissolved manganese. All samples were collected and analyzed according to the current MassDEP CAM. This data has Presumptive Certainty for precision and accuracy. A review of PARCCS indicates that the data collected during the sampling event is of suitable quality to support the conclusions of this and future reports. The groundwater monitoring program is summarized in Table 1.

1.2 Groundwater Sample Data

On March 16, 2022 and July 11, 2022, groundwater samples were collected from monitoring wells MW-1, MW-3, OW-ED, and OW-13. In March 2022, the concentration of dissolved-phase VPH C9-C10 aromatics exceeded the GW-1 standard in the sample collected from OW-13. In July 2022, MCP Method 1 GW-1 standards were met at all locations sampled.

1.3 MNA Evaluation

Atlas submitted groundwater samples for laboratory analysis of various geochemical parameters indicative of primary and secondary Lines of Evidence to determine if natural attenuation is occurring at the Site. The primary line of evidence uses historical analytical data to demonstrate that the contaminant plume is stable or shrinking. The secondary line of evidence uses geochemical data to demonstrate that biodegradation is occurring by measuring the byproducts of both aerobic and anaerobic biodegradation processes.

The highest concentrations of dissolved-phase VPH target analytes have historically been detected in the vicinity of on-site groundwater monitoring wells OW-13 and MW-2R. However, no concentrations of contaminants above the applicable standards were detected in MW-2R since 2014, and the dissolved phase plume appears limited to the area around MW-3 and OW-13 based on recent data. Concentrations in these wells have exhibited a steadily decreasing trend, with only C9-C10 aromatics remaining above standards. Groundwater samples collected from upgradient well MW-4 and downgradient well OW-12 have not exhibited concentrations of contaminants above applicable standards since 2013.

The decreasing contaminant concentrations and shrinking of the contaminant plume support the primary line of evidence that biodegradation is occurring. Dissolved-phase VPH target analyte concentrations still periodically exceed their respective MCP Method 1 GW-1 Groundwater Standards in on-site groundwater monitoring wells; however, the frequency of exceedances and the concentrations observed are considered to be low and are continuing to decrease.

MTBE, historically the primary contaminant of concern with respect to off-property impacts, has not been detected above its applicable MCP Method 1 GW-1 groundwater standard in any monitoring well since 2015.

The groundwater samples collected from monitoring wells MW-1, MW-3, OW-ED, and OW-13 were submitted for laboratory analysis of methane, nitrate, sulfate, iron and manganese, and were also monitored for field geochemical parameters (Table 3). The data from the March and July 2022 sampling events were compiled and compared to established literature values for further evaluation of natural attenuation (Tables 4 and 5, respectively).

The geochemical data for the March and July 2022 sampling events indicates that biodegradation processes are either not occurring or are occurring at such a low rate as to be inconclusive. The low concentrations of petroleum hydrocarbons are indicative of a depleted food source, which is limiting biodegradation processes. As the dissolved phase concentrations continue to decrease, populations of microbial organisms will also decrease, further limiting biodegradation processes.

2.0 SIGNIFICANT MODIFICATION TO THE OPERATION, MAINTENANCE, AND/OR MONITORING PROGRAM

No significant modifications to the OMM program were made during this reporting period.

3.0 MANAGEMENT OF REMEDIATION WASTE

No Remediation Waste was stored on-site or was generated during this reporting period.

4.0 EVALUATION OF THE PERFORMANCE OF THE REMEDIAL ACTION

Groundwater recovery, AS, and SVE systems were operated at the Site between January 1991 and March 2007. The operation of these remediation systems was discontinued in March 2007 due to the successful reduction of dissolved phase VPH concentrations in groundwater beneath the Site to levels appropriate for MNA.

Based upon the primary and second lines of evidence described in Section 1.3, the MNA program has effectively reduced the dissolved-phase contaminant concentrations in groundwater.

It is the opinion of Atlas that performance standards outlined in 310 CMR 40.0893(2) and as presented in the Phase IV RIP, are being accomplished. Atlas is not aware of any conditions or problems that are or may be affecting the performance of the remedial action at the Site.

5.0 FUTURE ACTIVITIES

The following is the schedule for future activities at the Site:

- Conduct quarterly groundwater sampling events at target groundwater monitoring well locations to evaluate the effectiveness of the CRA; and,
- Prepare and submit Phase V ROS Reports on a semi-annual basis (February and August) until such time that the Site conditions are consistent with a Permanent Solution.

6.0 PUBLIC INVOLVEMENT

As required by the Public Involvement Plan for the Site, copies of this Phase V ROS Status Report will be forwarded to the following information repositories:

- Memorial Hall Library
Elm Square
Andover, Massachusetts 01810
978 623-8400
- Department of Community Development and Planning
Town of Andover Board of Health
36 Bartlett Street
Andover, Massachusetts 01810
978 623-8296

Copies of the letters accompanying this Phase V ROS Status Report to the above information repositories are included in Attachment IV. Notices of availability of this Phase V ROS Status Report will be forwarded to the parties listed in the Public Involvement Plan mailing list (Table 6), with the exception of those parties previously determined to be no longer deliverable.

Additionally, prior to sampling events, notifications will be sent to the owners of the adjacent parcels where monitoring wells are located which are part of the ongoing monitoring program, and copies of analytical data collected on those properties have been, and will continue to be, forwarded to the owners in accordance with 310 CMR 40.1403(10).

Should you have any questions regarding the enclosed information, please feel free to contact either Jason Frigon of Global Companies LLC or the undersigned at (781) 932-9400.

Respectfully submitted,

ATLAS TECHNICAL



Patrick D. Corcoran, LSP
Senior Project Manager



Daniel W. Felten, P.E., LSP
Senior Consultant

cc.: Jason Frigon, Global

Figures

Figure 1	Site Locus Map
Figure 2	Aerial Overview Plan
Figure 3	Site Plan with Groundwater Contours (07/11/2022)

Tables

Table 1	Groundwater Monitoring Program
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Table 6	Public Involvement Plan Mailing List

Attachments

Attachment I	Conceptual Site Model
Attachment II	Acronyms and Abbreviations
Attachment III	Laboratory Analytical Reports
Attachment IV	Copies of Public Involvement Documentation

FIGURES



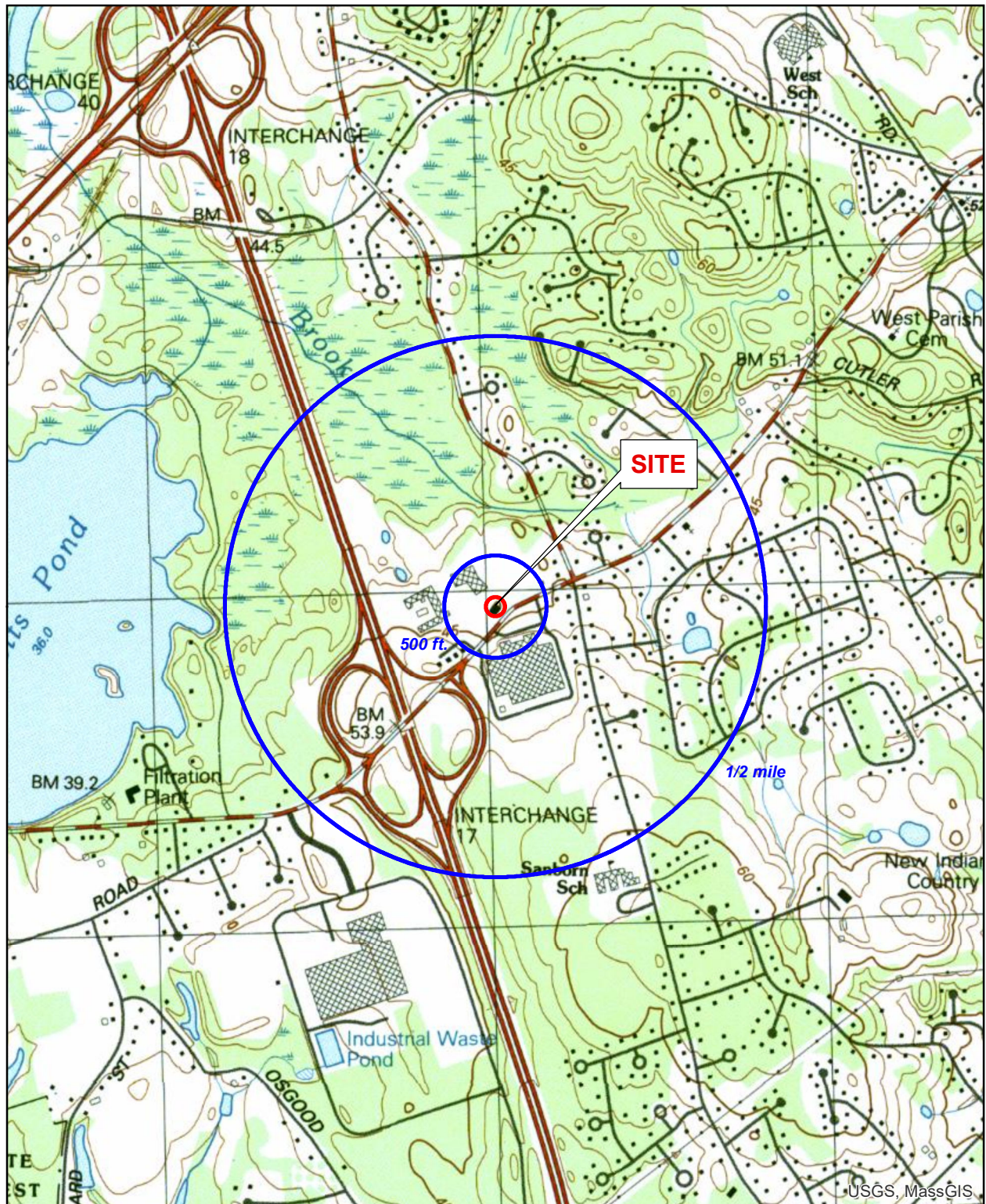
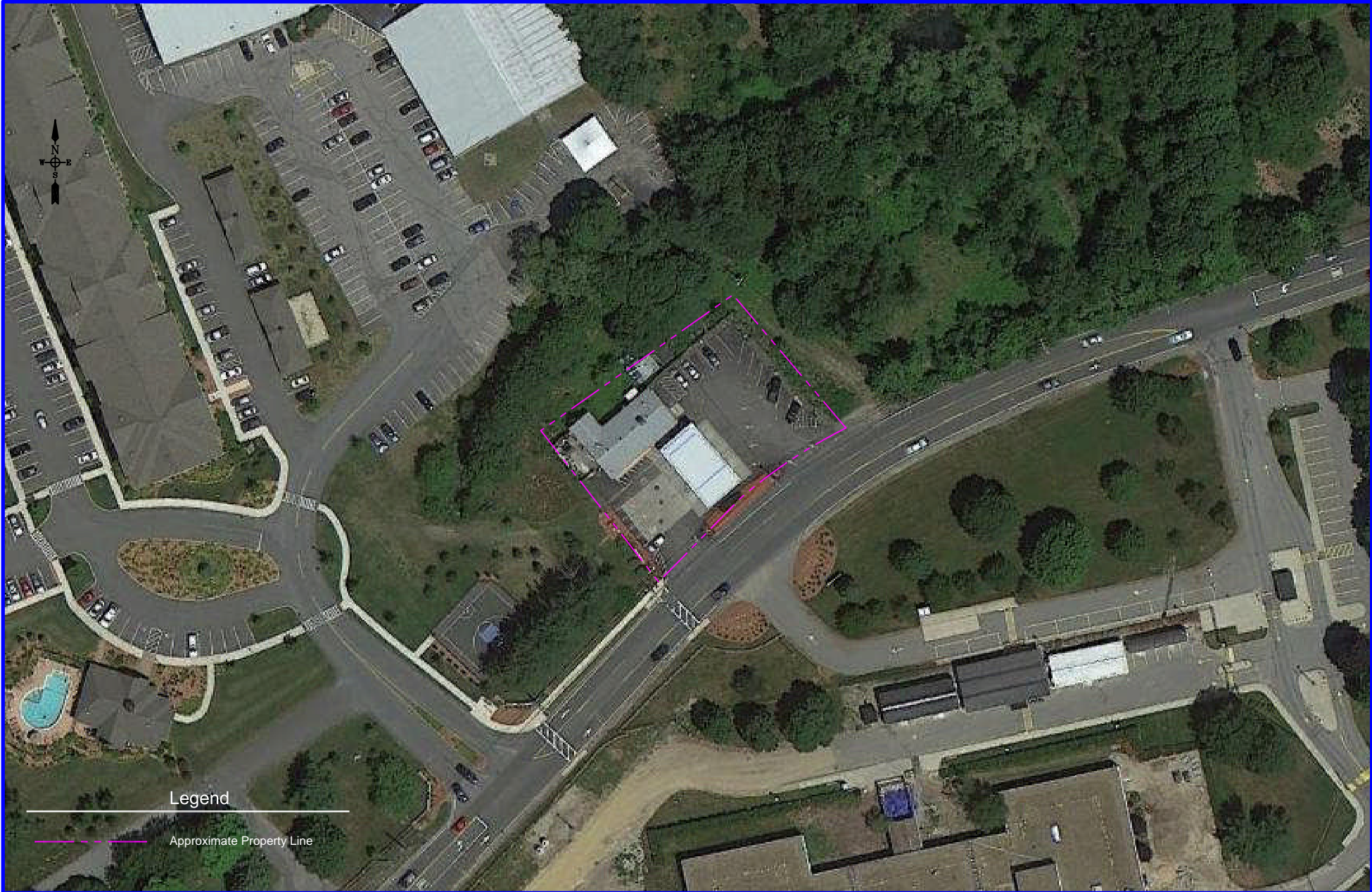



Figure 1: Site Locus

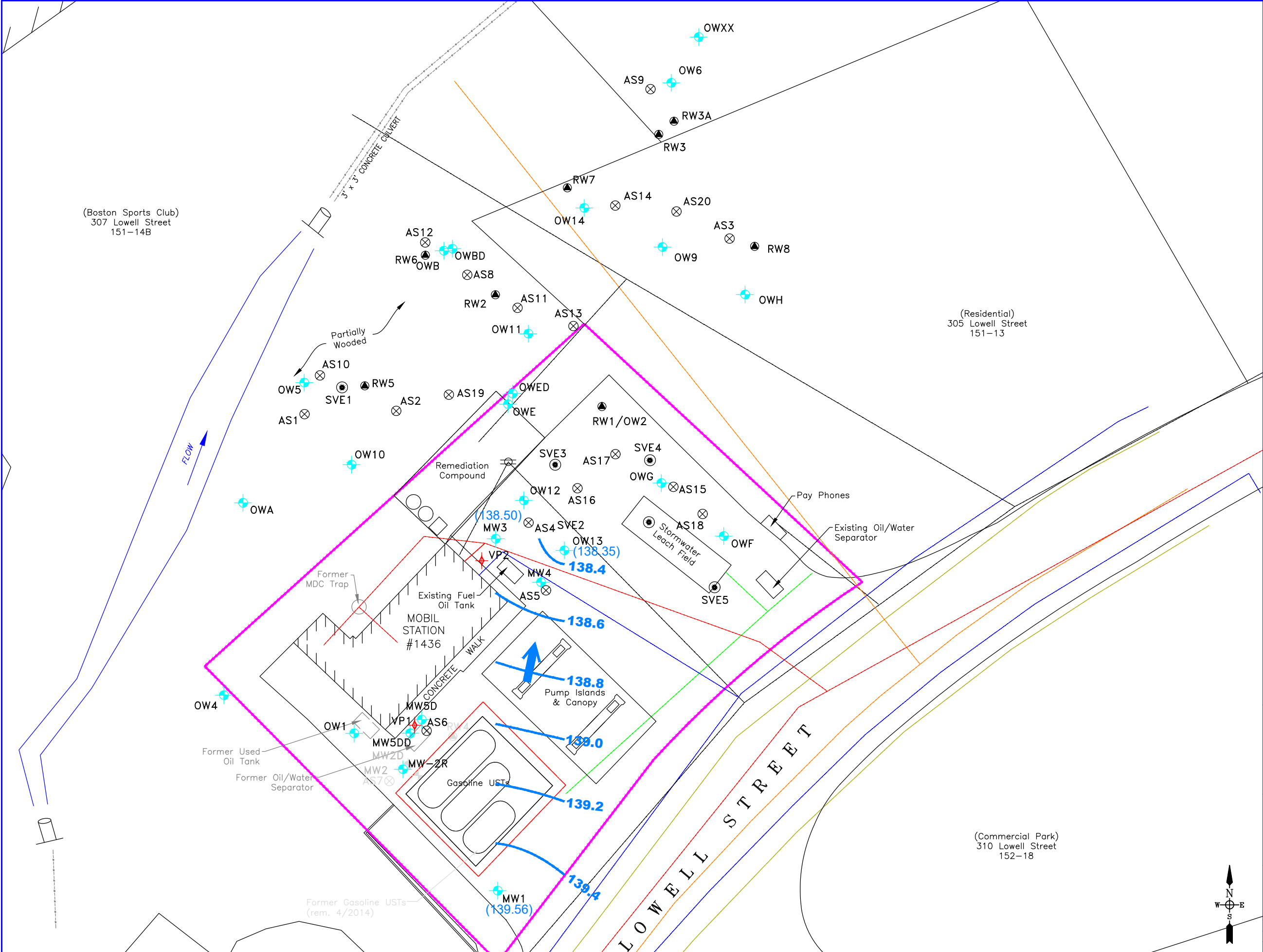
Source:
United States Geological Survey
Lawrence, MA Quadrangle
7.5 Minute Series
Scale: 1:24,000 Scale

ATLAS

Mobil Station No. 1436
309 Lowell Street
Andover, Massachusetts



<p>500 West Cummings Park, Suite 3750 Woburn, MA 01801 (781) 932-9400 PHONE (781) 932-6211 FAX</p> 	<table border="1"><tr><td data-bbox="327 1360 919 1463">NAME/ADDRESS:</td><td data-bbox="919 1360 1751 1463"><p>Mobil # 1436 309 Lowell Street Andover, Massachusetts</p></td></tr><tr><td data-bbox="327 1463 919 1550">DRAWING TITLE:</td><td data-bbox="919 1463 1751 1550"><p>AERIAL OVERVIEW PLAN</p></td></tr></table>	NAME/ADDRESS:	<p>Mobil # 1436 309 Lowell Street Andover, Massachusetts</p>	DRAWING TITLE:	<p>AERIAL OVERVIEW PLAN</p>	<table border="1"><tr><td data-bbox="1751 1360 2005 1421">0 Approximate Feet 100</td></tr><tr><td data-bbox="1751 1421 2005 1446">PROJECT #: 95-214880</td></tr><tr><td data-bbox="1751 1446 2005 1468">CHECKED BY: DF</td></tr><tr><td data-bbox="1751 1468 2005 1490">DRAWN BY: MC</td></tr><tr><td data-bbox="1751 1490 2005 1550">FIGURE NO. 2</td></tr></table>	0 Approximate Feet 100	PROJECT #: 95-214880	CHECKED BY: DF	DRAWN BY: MC	FIGURE NO. 2
NAME/ADDRESS:	<p>Mobil # 1436 309 Lowell Street Andover, Massachusetts</p>										
DRAWING TITLE:	<p>AERIAL OVERVIEW PLAN</p>										
0 Approximate Feet 100											
PROJECT #: 95-214880											
CHECKED BY: DF											
DRAWN BY: MC											
FIGURE NO. 2											



Legend

Approximate Property Line

Sanitary Sewer Line

Storm Sewer Line

Water Line

Natural Gas Line

Telephone Line

Overhead Electric Line

Manhole

Catchbasin

Water Gate

Fire Hydrant

Utility Pole

Outfall/Culvert

Soil Boring

Monitoring Well

Recovery Well

Air Sparge Well

Soil Vapor Extraction Well

Soil Vapor Monitoring Point

Surface Water Sampling Point

Well I.D.

Groundwater Elevation

Water Table Contour
(Dashed where inferred)

Flow Direction Indicator

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

0Approximate Feet32

NAME/ADDRESS:

GLOBAL COMPANIES LLC
Mobil #1436
309 Lowell Street
Andover, Massachusetts

DRAWING TITLE:

Site Plan with Groundwater
Contours (7/11/2022)

ATLAS

Atlas Technical Consultants
10 State Street, Suite 100
Woburn, MA 01801
(781) 932-9400 PHONE
(781) 932-6211 FAX

DRAWN BY:MC/AR/BAM

CHECKED BY:PDC

PROJECT NO.95-214880

FIGURE NO.

3

TABLES



95-214880
Global Companies, LLC
Mobil Station No. 1436
309 Lowell Street
Andover, MA

Table 1
Groundwater Monitoring Program

Sampling Date:	16-Mar-22	11-Jul-22
Sample Method:	Modified low-flow	Modified low-flow
Laboratory Analysis:	VPH, methane, nitrate, sulfate, total and dissolved iron and manganese.	VPH, methane, nitrate, sulfate, total and dissolved iron and manganese.
Field Measurements:	Temperature, specific conductivity, dissolved oxygen (DO), pH, oxidation-reduction potential (ORP), and turbidity	Temperature, specific conductivity, DO, pH, ORP, and turbidity
Laboratory:	Con-Test Analytical Laboratory of East Longmeadow, MA (Con-Test)	Con-Test
Sampling points planned:	4 wells	4 wells
Number of wells gauged:	4 wells	4 wells
Number of wells sampled:	4 wells	4 wells
Completeness:	100%	100%
Wells sampled:	MW-1, MW-3, OW-13, and OW-ED	MW-1, MW-3, OW-13, and OW-ED
Comments:	None	None

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater												
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-1 (GW-1,2,3) 5-15'	07/30/1998	148.35	8.51	ND	139.84	<1.0	<1.0	<1.0	<3	19	NA	NA	NA	NA
	09/11/1998	148.35	9.41	ND	138.94	<1.0	<1.0	<1.0	<3	29	NA	NA	NA	NA
	10/26/1998	148.35	8.84	ND	139.51	<1.0	<1.0	<1.0	<3	40	NA	NA	NA	NA
	11/13/1998	148.35	9.02	ND	139.33	<1.0	<1.0	<1.0	<3	35	NA	NA	NA	NA
	12/17/1998	148.35	9.15	ND	139.20	<1.0	<1.0	<1.0	<3	37	NA	NA	NA	NA
	01/06/1999	148.35	8.69	ND	139.66	<1.0	<1.0	<1.0	<3	31	NA	NA	NA	NA
	02/09/1999	148.35	7.80	ND	140.55	<1.0	<1.0	<1.0	<3	8	NA	NA	NA	NA
	03/29/1999	148.35	7.38	ND	140.97	<1.0	<1.0	<1.0	<3	9	NA	NA	NA	NA
	06/24/1999	148.35	8.75	ND	139.60	<1.0	<5	<5	<15	5.5	<5	<100	<100	<100
	11/20/2001	148.35	8.10	ND	140.25	<5.0	<5.0	<5.0	<10	247	<5.0	<50	<50	<50
	02/26/2001	148.35	8.30	ND	140.05	<1.0	<5.0	<5.0	<15	50.8	<5	<100	<100	<100
	07/16/2001	148.35	8.73	ND	139.62	<5.0	<5.0	<5.0	<10	55.8	<5	<50	<50	<50
	01/22/2002	148.35	9.13	ND	139.22	<5.0	<5.0	<5.0	<10	30.4	<5.0	<50	<50	<50
05/17/2002	148.35	8.10	ND	140.25	<5.0	<5.0	<5.0	<10	20.4	<5.0	<50	<50	<50	
10/02/2002	147.98	9.92	ND	138.06	<2.0	<2.0	<2.0	<4.0	6	<3.0	<50	<50	<50	
11/13/2003	147.98	8.81	ND	139.17	<2.0	<2.0	<2.0	<4.0	5.1	<3.0	<50	<50	<50	
OW-3 (GW-1,3) 5-15'	07/30/1998	149.86	9.21	ND	140.65	<1.0	<1.0	<1.0	<3	5	NA	NA	NA	NA
	09/11/1998	149.86	9.92	ND	139.94	<1.0	<1.0	<1.0	<3	3	NA	NA	NA	NA
	10/26/1998	149.86	9.68	ND	140.18	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	11/13/1998	149.86	9.91	ND	139.95	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	12/17/1998	149.86	9.71	ND	140.15	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	01/06/1999	149.86	9.60	ND	140.26	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	02/09/1999	149.86	8.15	ND	141.71	<1.0	<1.0	<1.0	<3	11	NA	NA	NA	NA
	03/29/1999	149.86	7.54	ND	142.32	<1.0	<1.0	<1.0	<3	37	NA	NA	NA	NA
	06/24/1999	149.86	9.12	ND	140.74	<1.0	<5.0	<5.0	<15	<5.0	<50	<100	<100	<100
	11/20/2000	149.86	8.64	ND	141.22	<5.0	<5.0	<5.0	<10	489	<5.0	<50	<NA	<50
	02/26/2001	149.86	9.20	ND	140.66	<1.0	<5.0	<5.0	<15	<5.0	<50	<100	<100	<100
	07/16/2001	149.86	9.00	ND	140.86	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	01/22/2002	149.86	9.82	ND	140.04	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	05/18/2004	149.55	9.41	ND	140.14	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	11/17/2004	149.55	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	06/20/2005	149.55	9.31	ND	140.24	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	12/16/2005	149.55	8.86	ND	140.69	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	06/27/2006	149.55	8.11	ND	141.44	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/14/2006	149.55	9.36	ND	140.19	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	07/11/2007	149.55	9.80	ND	139.75	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	01/08/2008	149.55	9.15	ND	140.4	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/20/2008	149.55	9.65	ND	139.9	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	01/14/2009	149.55	9.04	ND	140.51	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/22/2009	149.55	8.85	ND	140.7	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	12/23/2009	149.55	8.86	ND	140.69	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/10/2010	149.55	9.81	ND	139.74	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
OW-4 (GW-1,3) 2-15'	07/30/1998	147.61	7.92	ND	139.69	<1.0	<1.0	<1.0	<3	3	NA	NA	NA	NA
	09/11/1998	147.61	8.89	ND	138.72	<1.0	<1.0	<1.0	<3	3	NA	NA	NA	NA
	10/26/1998	147.61	11.98	ND	135.63	<1.0	<1.0	<1.0	<3	99	NA	NA	NA	NA
	11/13/1998	147.61	8.35	ND	139.26	<1.0	<1.0	<1.0	<3	3	NA	NA	NA	NA
	12/17/1998	147.61	8.52	ND	139.09	<1.0	<1.0	<1.0	<3	4	NA	NA	NA	NA
	01/06/1999	147.61	7.94	ND	139.67	<1.0	<1.0	<1.0	<3	5	NA	NA	NA	NA
	02/09/1999	147.61	7.35	ND	140.26	<1.0	<1.0	<1.0	<3	5	NA	NA	NA	NA
	03/29/1999	147.61	7.15	ND	140.46	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	06/24/1999	147.61	8.20	ND	139.41	<1.0	<5.0	<5.0	<15	82.2	<5	<100	<100	<100
	11/04/1999	147.61	7.84	ND	139.77	<1.0	<5.0	<5.0	<15	6.2	<5.0	<100	<100	<100
	11/20/2000	147.61	7.65	ND	139.96	<5.0	<5.0	<5.0	<10	50.7	<5.0	<50	<50	<50
	02/26/2001	147.61	7.62	ND	139.99	<1.0	<5.0	<5.0	<15	77.7	<5	<100	<100	<100
	07/16/2001	147.61	8.10	ND	139.51	<5.0	<5.0	<5.0	<10	56	<5	<50	<50	<50
	01/22/2002	147.61	8.37	ND	139.24	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	05/07/2002	147.61	7.52	ND	140.09	<5.0	<5.0	<5.0	<10	199	<5.0	<50	<50	<50
	10/02/2002	147.61	9.42	ND	137.78	<2.0	<2.0	<2.0	<4.0	4.2	<3.0	<50	<50	<50
	05/10/2003	147.61	7.18	ND	140.02	<1.0	<1.0	<1.0	<1.0	799	NS	NS	NS	NS
	11/12/2003	147.61	7.92	ND	139.28	<2.0	<2.0	<2.0	<2.0	78.4	<3.0	<50	<50	<50
	05/18/2004	147.20	7.82	ND	139.38	<1.00	<3.0	<1.0	<6.0	250	<5.0	<100	<100	<100
	11/17/2004	147.20	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	06/20/2005	147.20	8.05	ND	139.15	<1.00	<3.0	<1.0	<6.0	321	<5.0	<100	<100	<100
	12/16/2005	147.20	7.41	ND	139.79	<1.00	<3.00	<1.00	<4.00	8.23	<5.00	<100	<100	<100
	06/27/2006	147.20	8.36	ND	138.84	<1.00	<3.00	<1.00	<4.00	23.3	<5.00	<100	<100	<100
	12/14/2006	147.20	8.02	ND	139.18	<1.00	<3.00	<1.00	<6.00	260	<5.00	<100	<100	<100
	07/11/2007	147.20	7.30	ND	139.90	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	01/08/2008	147.20	7.70	ND	139.50	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/20/2008	147.20	8.07	ND	139.13	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	01/14/2009	147.20	8.01	ND	139.19	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/22/2009	147.20	7.57	ND	139.63	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	12/23/2009	147.20	8.02	ND	139.18	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/10/2010	147.20	8.10	ND	139.1	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater												
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-5 (GW-1,3) 1-10'	01/31/1997	144.43	4.84	ND	139.59	24	1.8	17	15.7	274	NA	NA	NA	NA
	04/03/1997	144.43	4.62	ND	139.81	<0.2	<0.2	<0.2	<0.4	<2.0	NA	NA	NA	NA
	07/21/1997	144.43	6.18	ND	138.25	6	<1.0	<1.0	<3	290	NA	NA	NA	NA
	10/22/1997	144.43	7.03	ND	138.25	70	5	10	<3	3,100	NA	NA	NA	NA
	05/04/1998	144.43	4.52	ND	139.91	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	07/30/1998	144.43	5.33	ND	139.10	46	20	36	37	1,300	NA	NA	NA	NA
	09/11/1998	144.43	6.16	ND	138.27	4	<1.0	<1.0	<3	190	NA	NA	NA	NA
	10/26/1998	144.43	5.38	ND	139.05	4	<1.0	<1.0	<3	54	NA	NA	NA	NA
	11/13/1998	144.43	5.48	ND	138.95	2	<1.0	<1.0	<3	29	NA	NA	NA	NA
	12/17/1998	144.43	5.76	ND	138.67	3	<1.0	<1.0	<3	52	NA	NA	NA	NA
	01/06/1999	144.43	5.23	ND	139.20	<1.0	<1.0	<1.0	<3	2	NA	NA	NA	NA
	02/09/1999	144.43	4.70	ND	139.73	<1.0	<1.0	<1.0	<3	2	NA	NA	NA	NA
	03/29/1999	144.43	4.50	ND	139.93	1	<1.0	<1.0	<3	9	NA	NA	NA	NA
	06/24/1999	144.43	5.65	ND	138.78	7	<5.0	<5.0	<15	86.8	<5.0	<100	<100	<100
	11/04/1999	144.43	4.96	ND	139.47	<1	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	01/03/2000	144.43	5.23	ND	139.20	<1	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	04/14/2000	144.43	4.89	ND	139.54	<1	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	01/22/2002	144.43	5.81	ND	138.62	<5.0	<5.0	<5.0	<10	72.8	<5.0	<50	<50	<50
	05/07/2002	144.43	4.66	ND	139.77	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	10/02/2002	143.66	6.39	ND	137.27	<2.0	<2.0	<2.0	<4.0	<2.0	<3.0	<50	<50	<50
	05/18/2004	143.66	5.05	ND	138.61	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	11/17/2004	143.66	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	06/20/2005	143.66	6.3	ND	137.36	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	12/15/2005	143.66	7.79	ND	135.87	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	06/27/2006	143.66	4.11	ND	139.55	<1.00	<3.00	3.83	<4.00	253	<5.00	<100	<100	534
	12/14/2006	143.66	5.12	ND	138.54	<1.00	<3.00	<1.00	<6.00	6.87	<5.00	<100	<100	<100
	07/10/2007	143.66	5.44	ND	138.22	<1.00	<3.00	14.6	4.12	12.1	<5.00	287	344	588
	10/17/2007	143.66	6.03	ND	137.63	5.06	3.85	10.2	7.20	18.8	<5.00	<100	127	57.9
01/08/2008	143.66	4.76	ND	138.9	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
03/21/2008	143.66	4.01	ND	139.65	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
06/20/2008	143.66	5.17	ND	138.49	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100	
09/25/2008	143.66	5.20	ND	138.46	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
12/18/2008	143.66	4.30	ND	139.36	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
03/10/2009	143.66	4.13	ND	139.53	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
06/22/2009	143.66	4.48	ND	139.18	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
09/17/2009	143.66	5.04	ND	138.62	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
12/23/2009	143.66	4.95	ND	138.71	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
04/21/2010	143.66	4.83	ND	138.83	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
06/11/2010	143.66	5.21	ND	138.45	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
OW-6 (GW-1,3) 1-15'	04/03/1997	146.43	9.92	ND	136.51	16	ND	44	28.6	1,720	NA	NA	NA	NA
	07/21/1997	146.43	10.71	ND	135.72	340	370	63	250	11,000	NA	NA	NA	NA
	10/22/1997	146.43	11.38	ND	135.05	2,200	4,400	310	2,300	14,000	NA	NA	NA	NA
	05/04/1998	146.43	7.26	ND	139.17	22	2	73	<3	570	NA	NA	NA	NA
	09/11/1998	146.43	11.39	ND	135.04	31	<1.0	18	<3	2,600	NA	NA	NA	NA
	03/29/1999	146.43	7.25	ND	139.18	<1.0	<1.0	<1.0	<3	2	NA	NA	NA	NA
	06/24/1999	146.43	15.00	ND	131.43	<1.0	<5.0	<5.0	<15	6.6	<5.0	<100	<100	<100
	11/04/1999	146.43	7.60	ND	138.83	102	5.9	170	295.2	15,500	55.6	<2,000	<2,000	2,300
	01/03/2000	146.43	7.65	ND	138.78	290	<25	161	501	21,700	59	<500	1,090	3,500
	02/16/2000	146.43	9.07	ND	137.36	286	<25	194	659	12,700	52	<500	1,480	3,050
	02/25/2000	146.43	6.97	ND	139.46	270	8	190	650	11,000	NS	NS	NS	NS
	04/14/2000	146.43	NG	NG	NA	26.8	<5.0	<5.0	<15	2,210	<5.0	<100	<100	<100
	08/21/2000	146.43	9.41	ND	137.02	51.3	<5.0	33.4	<17.1	4,120	<5.0	<100	<100	150
	11/20/2000	146.43	9.00	ND	137.43	<5	<5.0	<5.0	<10	216	<5.0	<50	<50	<50
	02/26/2001	146.43	8.82	ND	137.61	5	<5.0	<5	<15	156	<5.0	<100	<100	<100
	07/16/2001	146.43	9.72	ND	136.71	17.7	<10	36.2	<20	6,370	11.1	<100	151	272
	01/22/2002	146.43	9.91	ND	136.52	<5.0	<5.0	<5.0	<10	13.7	<5.0	<50	<50	<50
	05/07/2002	146.43	8.74	ND	137.69	74	34.3	116	191	1,380	24	<50	274	841
	05/10/2003	147.09	5.53	ND	141.56	<2.0	<2.0	<2.0	<4.0	28.2	<3.0	<50	<50	<50
	11/12/2003	147.09	NG	NG	NA	<2.0	<2.0	<2.0	<4.0	3.8	<3.0	<50	<50	<50
	05/18/2004	147.09	9.05	ND	138.04	<1.00	<3.0	<1.0	<6.0	15.4	<5.0	<100	<100	<100
	11/19/2004	147.09	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	06/02/2005	147.09	8.92	ND	138.17	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	12/16/2005	147.09	7.68	ND	139.41	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	06/27/2006	147.09	7.81	ND	139.28	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/13/2006	147.09	8.72	ND	138.37	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	07/10/2007	147.09	9.08	ND	138.01	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	10/17/2007	147.09	10.59	ND	136.5	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
01/08/2008	147.09	8.41	ND	138.68	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
03/21/2008	147.09	7.86	ND	139.23	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
06/20/2008	147.09	8.87	ND	137.56	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
09/25/2008	147.09	8.98	ND	137.45	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
12/18/2008	147.09	8.04	ND	138.39	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
03/10/2009	147.09	7.94	ND	138.49	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
06/22/2009	147.09	8.3	ND	138.13	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
09/17/2009	147.09	8.80	ND	137.63	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
12/23/2009	147.09	8.22	ND	138.21	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
04/21/2010	147.09	8.52	ND	137.91	<1.00	<3.00	<1.00							

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater													
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)	
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200	
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000	
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000	
OW-7 (GW-1,3) 1-15'	05/20/1998	145.82	5.49	ND	140.33	<1	<1	<1	<3	<1	NA	NA	NA	NA	
	10/26/1998	145.82	7.69	ND	138.13	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
	11/13/1998	145.82	7.65	ND	138.17	<1.0	<1.0	<1.0	<3	7	NA	NA	NA	NA	
	12/17/1998	145.82	7.92	ND	137.90	<1.0	<1.0	<1.0	<3	2	NA	NA	NA	NA	
	01/06/1999	145.82	7.35	ND	138.47	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
	02/09/1999	145.82	7.05	ND	138.77	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
	03/29/1999	145.82	6.88	ND	138.94	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
	06/24/1999	145.82	8.67	ND	137.15	<1.0	<5.0	<5.0	<15	9.3	<5.0	<100	<100	<100	
	02/16/2000	145.82	7.15	ND	138.67	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100	
	11/20/2000	145.82	7.45	ND	138.37	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50	
	01/22/2002	145.82	8.10	ND	137.72	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50	
	05/07/2002	145.82	7.17	ND	138.65	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50	
	10/02/2002	145.42	8.32	ND	137.10	<2.0	<2.0	<2.0	<4.0	2.5	<3.0	<50	<50	<50	
	OW-8 (GW-1,3) 2-15'	05/20/1998	146.28	7.69	ND	138.59	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
07/30/1998		146.28	8.18	ND	138.10	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
09/11/1998		146.28	8.75	ND	137.53	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
10/26/1998		146.28	8.09	ND	138.19	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
11/13/1998		146.28	8.07	ND	138.21	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
12/17/1998		146.28	8.33	ND	137.95	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
01/06/1999		146.28	7.75	ND	138.53	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
02/09/1999		146.28	7.48	ND	138.80	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
03/29/1999		146.28	7.23	ND	139.05	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
06/24/1999		146.28	8.46	ND	137.82	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100	
11/20/2000		146.28	7.81	ND	138.47	<5.0	<5.0	<5.0	10	<5.0	<5.0	<50	<50	<50	
01/22/2002		146.28	8.43	ND	137.85	<5.0	<5.0	<5.0	10	<5.0	<5.0	<50	<50	<50	
OW-9 (GW-1,3) 1-15'		07/30/1998	147.49	8.60	ND	138.89	<1.0	<1.0	<1.0	<3	24	NA	NA	NA	NA
		09/11/1998	147.49	9.23	ND	138.26	<1.0	<1.0	<1.0	<3	6	NA	NA	NA	NA
	10/26/1998	147.49	8.60	ND	138.89	<1.0	<1.0	<1.0	<3	3	NA	NA	NA	NA	
	11/13/1998	147.49	8.64	ND	138.85	<1.0	<1.0	<1.0	<3	2	NA	NA	NA	NA	
	12/17/1998	147.49	8.94	ND	138.55	<1.0	<1.0	<1.0	<3	4	NA	NA	NA	NA	
	01/06/1999	147.49	8.27	ND	139.22	<1.0	<1.0	<1.0	<3	2	NA	NA	NA	NA	
	02/09/1999	147.49	7.88	ND	139.61	<1.0	<1.0	<1.0	<3	18	NA	NA	NA	NA	
	03/29/1999	147.49	7.79	ND	139.70	<1.0	<1.0	<1.0	<3	1	NA	NA	NA	NA	
	06/24/1999	147.49	9.09	ND	138.40	2.6	<5	<5	61.5	27.3	8.4	<100	<100	<100	
	11/04/1999	147.49	8.18	ND	139.31	8.6	97.3	39.3	191.4	1,830	6.2	<100	100	180	
	01/03/2000	147.49	8.44	ND	139.05	<1.0	<5.0	<5.0	<15	592	<5.0	<100	<100	<100	
	04/14/2000	147.49	NG	NG	NA	18.6	20	30.6	101.6	670	<5.0	<100	220	290	
	08/21/2000	147.49	9.53	ND	137.96	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100	
	11/20/2000	147.49	8.95	ND	138.54	<5.0	<5.0	<5.0	<10	726	<5.0	<50	<50	<50	
	02/26/2001	147.49	8.72	ND	138.77	14.8	<5.0	18.2	<15	393	<5.0	<100	<100	<100	
	01/22/2002	147.49	10.18	ND	137.31	<5.0	<5.0	<5.0	<10	10.8	<5.0	<50	<50	<50	
	11/12/2003	147.40	9.45	ND	137.95	<2.0	<2.0	<2.0	<2.0	6.1	<3.0	<50	<50	<50	
	05/18/2004	147.40	9.10	ND	138.30	<1.00	<3.0	1.1	<6.0	29.4	<5.0	<100	<100	<100	
	11/19/2004	147.40	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100	
	06/02/2005	147.40	8.07	ND	139.33	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100	
	12/16/2005	147.40	8.07	ND	139.33	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100	
	06/27/2006	147.40	9.05	ND	138.35	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100	
	07/10/2007	147.40	9.25	ND	138.15	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	01/08/2008	147.40	8.39	ND	139.01	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	06/20/2008	147.40	9.03	ND	138.37	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100	
	12/18/2008	147.40	8.15	ND	139.25	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
06/22/2009	147.40	8.41	ND	138.99	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100		
12/23/2009	147.40	8.53	ND	138.87	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100		
06/11/2010	147.40	9.24	ND	138.16	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100		

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater													
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)	
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200	
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000	
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000	
OW-10 (GW-1,3) Total depth = 17.5'	04/03/1997	146.59	6.44	ND	140.15	19	2.2	20	21	72	NA	NA	NA	NA	
	07/21/1997	146.59	8.64	ND	137.95	34	5	46	8	340	NA	NA	NA	NA	
	10/22/1997	146.59	9.58	ND	137.01	230	420	240	890	12,000	NA	NA	NA	NA	
	05/04/1998	146.59	7.09	ND	139.50	21	<1	35	3	570	NA	NA	NA	NA	
	07/30/1998	146.59	7.85	ND	138.74	60	90	90	380	1,500	NA	NA	NA	NA	
	09/11/1998	146.59	9.70	ND	136.89	40	7	50	95	640	NA	NA	NA	NA	
	10/26/1998	146.59	7.87	ND	138.72	120	39	98	240	880	NA	NA	NA	NA	
	11/13/1998	146.59	8.01	ND	138.58	74	19	73	200	630	NA	NA	NA	NA	
	12/17/1998	146.59	8.28	ND	138.31	55	6	51	99	390	NA	NA	NA	NA	
	01/06/1999	146.59	7.68	ND	138.91	100	<20	110	170	840	NA	NA	NA	NA	
	02/09/1999	146.59	7.15	ND	139.44	28	3	22	25	470	NA	NA	NA	NA	
	03/29/1999	146.59	6.96	ND	139.63	61	89	57	90	630	NA	NA	NA	NA	
	06/24/1999	146.59	8.13	ND	138.46	122	59	133	389	938	<25	<500	<500	<500	
	11/04/1999	146.59	7.52	ND	139.07	23.3	<5.0	18.5	<15	155	<5.0	<100	<100	110	
	01/03/2000	146.59	7.76	ND	138.83	39	<5.0	25.6	<15	204	<5.0	<100	<100	110	
	02/16/2000	146.59	7.32	ND	139.27	7.5	<5.0	<5.0	<15	67.9	<5.0	<100	<100	<100	
	04/14/2000	146.59	7.39	ND	139.20	41.7	57.6	35.4	76.2	266	<5.0	<100	<100	110	
	08/21/2000	146.59	8.05	ND	138.54	107	614	171	671	2,610	<25	<500	590	840	
	11/20/2000	146.59	7.51	ND	139.08	194	1,410	320	2,010	14,900	83.8	<50	1,420	1,580	
	02/26/2001	146.59	7.33	ND	139.26	16	<5.0	21.5	39.9	556	6.3	<100	<100	<100	
	07/16/2001	146.59	8.16	ND	138.43	<50	<5.0	<5.0	<100	749	<50	<500	<500	<500	
	10/02/2002	146.31	8.92	ND	137.39	<2.0	<2.0	<2.0	<4.0	110	<3.0	<50	<50	<50	
	11/13/2003	146.31	7.71	ND	138.60	<2.0	<2.0	<2.0	<4.0	26.7	<3.0	<50	<50	<50	
	05/18/2004	146.31	7.55	ND	138.76	<14.3	<3.0	2.1	6.2	336	<5.0	<100	<100	<100	
	11/17/2004	146.31	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	193	<5.0	<100	<100	<100	
	06/02/2005	146.31	7.55	ND	138.76	6.4	3.2	3.8	10.5	216	<5.0	<100	<100	<100	
	12/15/2005	146.31	7.30	ND	139.01	<1.00	<3.00	3.91	<4.00	57.7	<5.00	<100	<100	65.9	
	12/14/2006	146.31	7.65	ND	138.66	<1.00	<3.00	6.13	30.4	48.7	<5.00	<100	140	276	
	07/10/2007	146.31	7.89	ND	138.42	3.74	<3.00	7.0	14.78	11.4	<5.00	186	257	415	
	10/17/2007	146.31	8.58	ND	137.73	25.4	5.84	120	16.48	20.5	<5.00	865	621	343	
	01/08/2008	146.31	7.24	ND	139.07	1.36	13.5	8.85	68.8	8.97	<5.00	<100	<100	227	
	03/21/2008	146.31	6.43	ND	139.88	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	06/20/2008	146.31	7.67	ND	138.64	2.37	<3.00	7.88	10.59	<3.00	<5.00	<100	<100	<100	
	09/25/2008	146.31	7.70	ND	138.61	10.3	<3.00	28.0	17.57	4.17	<5.00	147	<100	132	
	12/18/2008	146.31	6.80	ND	139.51	<1.00	<3.00	4.16	23.44	<3.00	<5.00	<100	<100	<100	
	03/10/2009	146.31	6.61	ND	139.70	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	06/22/2009	146.31	7.00	ND	139.31	1.88	<3.00	10.2	2.82	<3.00	<5.00	<100	<100	59.4	
	09/17/2009	146.31	7.40	ND	138.91	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	12/23/2009	146.31	7.35	ND	138.96	<1.00	<3.00	2.55	9.37	<3.00	<5.00	<100	<100	87.9	
	04/21/2010	146.31	7.16	ND	139.15	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	06/11/2010	146.31	7.81	ND	138.50	5.20	<3.00	29.0	<6.00	<3.00	<5.00	122	<100	114	
	06/28/2011	146.31	7.25	ND	139.06	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<75.0	<25.0	<25.0	
	03/08/2012	146.31	7.21	ND	139.10	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<75.0	<25.0	<25.0	
	06/20/2012	146.31	7.81	ND	138.50	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	<25.0	<25.0	
	09/10/2012	146.31	6.60	ND	139.71	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	<25.0	<25.0	
	12/12/2012	146.31	8.90	ND	137.41	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	<25.0	<25.0	
	06/19/2013	146.31	7.05	ND	139.26	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	<25.0	<25.0	
	12/16/2013	146.31	8.11	ND	138.20	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	<25.0	<25.0	
	03/31/2015	146.31	6.64	ND	139.67	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
OW-11 (GW-1,3) 5-20'	11/20/2000	145.88	9.67	ND	136.21	14.6	<5.0	<5.0	<10	4,320	<5.0	<50	<50	88.2	
	05/18/2004	147.24	8.48	ND	138.76	<1.0	<3.0	<1.0	<6.0	14.1	<5.0	<100	<100	<100	
	12/14/2006	147.24	3.53	ND	143.71	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	DESTROYED														

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater												
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-12 (GW-1,3) 5'-18'	10/02/2002	147.64	10.13	ND	137.51	34.9	<2.0	120	50.1	3,420	34.6	<50	276	987
	11/13/2003	147.64	8.95	ND	138.69	2.8	4.8	147	458	167	26.9	<50	<50	754
	06/20/2005	147.64	8.66	ND	138.98	1.20	82.3	493	1,229	290	138	646	<1,000	3,460
	12/16/2005	147.64	7.98	ND	139.66	<1.00	<3.00	2.73	<4.00	<3.00	<5.00	<100	<100	82.6
	06/27/2006	147.64	7.7	ND	139.94	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/14/2006	147.64	8.75	ND	138.89	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	131	<100
	07/11/2007	147.64	9.24	ND	138.40	<1.00	<3.00	12.3	<6.00	<3.00	<5.00	<100	117	127
	01/08/2008	147.64	8.53	ND	139.11	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	248
	06/20/2008	147.64	8.92	ND	138.72	1.23	<3.00	52.9	4.33	3.18	<5.00	286	593	910
	06/22/2009	147.64	8.25	ND	139.39	<1.00	<3.00	2.89	<6.00	<3.00	6.83	444	1,060	1,750
	12/23/2009	147.64	8.51	ND	139.13	1.42	<3.00	3.49	<6.00	<3.00	8.13	588	<0.5	1,600
	06/10/2010	147.64	9.12	ND	138.52	5.02	3.24	11.6	6.94	<3.00	6.20	603	<0.5	1,330
	09/30/2010	147.64	10.22	ND	137.42	15.6	<10.0	<10.0	<30.0	<10	32.3	304	884	400
	12/29/2010	147.64	8.93	ND	138.71	<5.00	<5.00	<5.00	<15.00	<5.00	<5.00	<75	<25	<25
	03/31/2011	147.64	8.02	ND	139.62	<5.00	<5.00	<5.00	<5.00	<5.00	17.7	179	459	244
	06/28/2011	147.64	8.25	ND	139.39	<5.0	<5.0	<5.0	<10.0	<5.0	13.1	136	328	158
	09/28/2011	147.64	8.80	ND	138.84	<5.0	<5.0	<5.0	<10.0	<5.0	15.2	163	291	142
	12/22/2011	147.64	8.51	ND	139.13	<5.0	<5.0	<5.0	<10.0	<5.0	19.0	166	403	172
	03/08/2012	147.64	8.48	ND	139.16	<5.0	<5.0	<5.0	<10.0	<5.0	16.8	115	163	138
	06/20/2012	147.64	9.06	ND	138.58	<5.0	<5.0	<5.0	<15.0	<5.0	35.9	233	217	418
	09/10/2012	147.64	9.65	ND	137.99	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75	<25	<25
	12/12/2012	147.64	9.17	ND	138.47	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75	84.1	105
	03/27/2013	147.64	8.07	ND	139.57	<5.0	<5.0	<5.0	<15.0	<5.0	19.8	97.9	101	122
	06/19/2013	147.64	8.25	ND	139.39	<5.0	<5.0	<5.0	<15.0	<5.0	18.4	107	118	123
	12/16/2013	147.64	9.45	ND	138.19	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75	<25	<25
	03/26/2014	147.64	8.32	ND	139.32	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75	<25	<25
	06/30/2014	147.64	9.30	ND	138.34	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	110
	09/11/2014	147.64	9.60	ND	138.04	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	110
12/08/2014	147.64	7.96	ND	139.68	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	110	<100	
03/12/2015	147.64	7.80	ND	139.84	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
09/17/2015	147.64	9.60	ND	138.04	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	150	<100	
12/16/2015	147.64	9.25	ND	138.39	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
03/08/2016	147.64	8.71	ND	138.93	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
06/07/2016	147.64	8.98	ND	138.66	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	160	<100	
09/26/2016	147.64	9.77	ND	137.87	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
12/20/2016	147.64	8.93	ND	138.71	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
03/28/2017	147.64	8.24	ND	139.40	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
06/28/2017	147.64	8.70	ND	138.94	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
09/19/2017	147.64	9.40	ND	138.24	<1.0	<1.0	2.1	1.6	<1.0	<5.0	<100	<100	130	
12/27/2017	147.64	9.14	ND	138.50	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
03/19/2018	147.64	7.80	ND	139.84	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
06/06/2018	147.64	8.94	ND	138.70	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
12/03/2018	147.64	7.48	ND	140.16	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	

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Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-13 (GW-1,3) 5-20'	10/02/2002	147.67	10.02	ND	137.65	2.7	5.6	58.4	85.6	7.3	14.2	<50	<50	206
	06/20/2005	147.67	8.40	ND	139.27	<1.00	57.5	688	3,933	1,130	286	933 J	<2,500	6,840
	12/16/2005	147.67	7.65	ND	140.02	<1.00	<3.00	64.0	572	<3.00	27.0	166	1,230	998
	06/27/2006	147.67	8.51	ND	139.16	<1.00	<3.00	58.6	82.9	3.77	15.8	<100	590	518
	12/14/2006	147.67	8.64	ND	139.03	<1.00	<3.00	157	258.9	<3.00	104	559	2,000	3,970
	07/11/2007	147.67	9.18	ND	138.49	<1.00	3.95	205	844	<3.00	125	467	4,480	4,570
	10/17/2007	147.67	9.69	ND	137.98	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	01/08/2008	147.67	9.37	ND	138.30	<1.00	6.05	305	980	<3.00	147	761	<100	8,460
	03/21/2008	147.67	7.45	ND	140.22	<1.00	3.35	213	647	<3.00	84.7	560	780	3,020
	3/21/2008 (Dup)	147.67	7.45	ND	140.22	<1.00	3.16	201	603	<3.00	77.4	496	876	3,090
	06/20/2008	147.67	8.75	ND	138.92	2.07	3.51	2.82	892	4.62	93.1	421	2,540	4,370
	09/25/2008	147.67	8.84	ND	138.83	3.10	<3.00	223	704	<3.00	89.6	469	<500	4,160
	12/23/2008	147.67	8.17	ND	139.50	<1.00	<3.00	271	1,107	<3.00	116	673	682	6,340
	03/10/2009	147.67	7.65	ND	140.02	1.36	<3.00	50.8	191.9	<3.00	26.3	310	657	1,380
	06/22/2009	147.67	7.94	ND	139.73	<1.00	<3.00	207	646	7.64	89.2	866	2,780	5,160
	09/17/2009	147.67	NG	ND	NA	<1.00	<3.00	5.82	17.47	<3.00	5.47	<100	<100	136
	12/23/2009	147.67	8.30	ND	139.37	2.13	<3.00	161	550	4.94	75.9	1,040	1,580	5,260
	04/21/2010	147.67	8.19	ND	139.48	<1.00	<3.00	41.4	92.8	<3.00	16.0	198	<500	947
	06/10/2010	147.67	8.80	ND	138.87	1.60	<3.00	118	300.4	<3.00	47.1	622	712	2,360
	09/30/2010	147.67	10.15	ND	137.52	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75	26	<25
	12/29/2010	147.67	9.76	ND	137.91	<5.00	<5.00	48	104.0	<5.00	22.0	164	839	458
	03/31/2011	147.67	7.85	ND	139.82	<5.00	<5.00	99	303.5	<5.00	28.4	290	1,510	896
	06/28/2011	147.67	8.11	ND	139.56	<5.0	<5.0	29.8	51.1	<5.0	20.6	305	1,140	594
	09/28/2011	147.67	8.66	ND	139.01	<5.0	<5.0	83.8	180.1	<5.0	45.7	341	2,010	1,310
	12/22/2011	147.67	8.18	ND	139.49	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75	<25	<25
	03/08/2012	147.67	8.32	ND	139.35	<5.0	<5.0	76.7	217.3	<5.0	28.5	220	1,210	982
	06/20/2012	147.67	8.89	ND	138.78	<5.0	<5.0	69.3	151.8	<5.0	44.5	383	764	1,780
	09/10/2012	147.67	9.42	ND	138.25	<5.0	<5.0	22.6	55.3	<5.0	15.2	139	529	649
	12/12/2012	147.67	9.02	ND	138.65	<5.0	<5.0	60.8	110.7	<5.0	29.8	181	916	1,320
	03/27/2013	147.67	7.85	ND	139.82	<5.0	<5.0	65.5	193.4	<5.0	22.8	187	608	892
	06/19/2013	147.67	8.02	ND	139.65	<5.0	<5.0	5.9	<10.0	<5.0	8.3	80.3	201	247
	12/16/2013	147.67	9.28	ND	138.39	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75	<25	<25
	03/26/2014	147.67	8.16	ND	139.51	<5.0	<5.0	25.7	46.3	<5.0	13.5	154	328	505
	06/30/2014	147.67	10.42	ND	137.25	2.4	<2.0	23	42.0	<2.0	10	<200	<200	650
	09/11/2014	147.67	9.52	ND	138.15	<1.0	<1.0	5.7	8.0	<1.0	<5.0	<100	290	220
	12/08/2014	147.67	7.79	ND	139.88	<1.0	<1.0	12	18.9	<1.0	13	120	<100	460
	03/31/2015	147.67	7.60	ND	140.07	<1.0	<1.0	51	157	<1.0	15	320	<100	950
	09/17/2015	147.67	9.50	ND	138.17	<1.0	<1.0	2.8	4.9	<1.0	<5.0	<100	<100	130
	12/16/2015	147.67	9.15	ND	138.52	<1.0	<1.0	6.6	15.5	<1.0	<5.0	<100	<100	340
	03/08/2016	147.67	8.55	ND	139.12	<1.0	<1.0	15	23.4	<1.0	6.8	230	<100	670
	06/07/2016	147.67	8.86	ND	138.81	<1.0	<1.0	14	24.9	<1.0	6.1	250	<100	820
	09/26/2016	147.67	9.70	ND	137.97	<1.0	<1.0	3.2	5.1	<1.0	<5.0	<100	<100	170
	12/20/2016	147.67	8.79	ND	138.88	<5.0	<5.0	29	63.6	<5.0	65	520	<500	1,400
03/28/2017	147.67	8.11	ND	139.56	<1.0	<1.0	15	39.5	<1.0	5.7	190	<100	700	
06/28/2017	147.67	8.52	ND	139.15	<2.0	<2.0	14	23.3	2.0	12	270	<200	1,200	
09/19/2017	147.67	9.30	ND	138.37	<2.0	<2.0	14	26	<2.0	12	<200	<200	870	
12/27/2017	147.67	9.04	ND	138.63	<1.0	<1.0	4.1	8.5	<1.0	<5.0	<100	160	130	
03/19/2018	147.67	8.06	ND	139.61	2.2	1.2	<1.0	<3.0	<1.0	<5.0	140	270	160	
06/06/2018	147.67	8.79	ND	138.88	<1.0	<1.0	3.4	4.6	<1.0	<5.0	<100	<100	220	
12/03/2018	147.67	7.15	ND	140.52	<1.0	<1.0	1.4	2.9	<1.0	<5.0	<100	190	160	
03/25/2019	147.67	7.88	ND	139.79	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
06/24/2019	147.67	8.34	ND	139.33	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
10/17/2019	147.67	8.43	ND	139.24	<1.0	<1.0	1.2	2.9	<1.0	<5.0	120	<100	240	
12/18/2019	147.67	7.66	ND	140.01	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
05/11/2020	147.67	8.35	ND	139.32	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	260	
09/24/2020	147.67	9.73	ND	137.94	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
12/21/2020	147.67	9.66	ND	138.01	<1.0	<1.0	3.7	9.6	<1.0	5.8	<100	<100	450	
03/22/2021	147.67	8.36	ND	139.31	<2.0	<2.0	7.6	20.4	<1.0	10	290	410	1,200	
06/16/2021	147.67	8.71	ND	138.96	<1.0	<1.0	1.1	<3.0	<1.0	<5.0	130	170	420	
09/17/2021	147.67	8.46	ND	139.21	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	110	<100	330	
12/17/2021	147.67	8.63	ND	139.04	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	340	300	
03/16/2022	147.67	8.15	ND	139.52	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	210	
07/11/2022	147.67	9.32	ND	138.35	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	130	

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater													
Well No. (GW Class) <i>Screen Interval (ft.)</i>	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)	
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200	
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000	
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000	
OW-14 (GW-1,3)	11/19/2004	148.01	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100	
	06/02/2005	148.01	9.29	ND	138.72	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100	
	12/16/2005	148.01	8.80	ND	139.21	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100	
	06/27/2006	148.01	8.61	ND	139.40	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100	
	07/10/2007	148.01	9.91	ND	138.10	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	10/17/2007	148.01	10.47	ND	137.54	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	01/08/2008	148.01	9.28	ND	138.73	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	03/21/2008	148.01	8.46	ND	139.55	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	06/20/2008	148.01	9.70	ND	138.31	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100	
	09/25/2008	148.01	9.80	ND	138.21	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	12/18/2008	148.01	8.83	ND	139.18	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	03/10/2009	148.01	8.71	ND	139.30	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	06/22/2009	148.01	9.12	ND	138.89	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	09/17/2009	148.01	9.51	ND	138.50	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	12/23/2009	148.01	9.22	ND	138.79	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	04/21/2010	148.01	9.30	ND	138.71	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	06/11/2010	148.01	9.98	ND	138.03	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
MW-1 (GW-1,3) 5-15'	07/30/1998	147.59	7.11	ND	140.48	<1.0	<1.0	<1.0	<3	3	NA	NA	NA	NA	
	09/11/1998	147.59	8.01	ND	139.58	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
	10/26/1998	147.59	7.68	ND	139.91	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
	11/13/1998	147.59	7.88	ND	139.71	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
	12/17/1998	147.59	7.72	ND	139.87	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
	01/06/1999	147.59	7.65	ND	139.94	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA	
	02/09/1999	147.59	6.35	ND	141.24	<1.0	<1.0	<1.0	<3	23	NA	NA	NA	NA	
	03/29/1999	147.59	5.65	ND	141.94	<1.0	<1.0	<1.0	<3	50	NA	NA	NA	NA	
	06/24/1999	147.59	7.08	ND	140.51	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100	
	01/22/2002	147.59	8.93	ND	138.66	<5.0	<5.0	<5.0	<10	24.3	<5.0	<50	<50	<50	
	05/10/2003	147.21	6.33	ND	140.88	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NS	NS	NS	
	11/13/2003	147.21	7.67	ND	138.54	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NS	NS	NS	
	06/28/2011	147.21	6.80	ND	140.41	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<75.0	<25.0	<25.0	
	03/26/2014	147.21	6.60	ND	140.61	<5.0	<5.0	<5.0	<10.0	<5.0	6.78	<75.0	<25.0	<25.0	
	06/30/2014	147.21	7.61	ND	139.60	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
	09/11/2014	147.21	7.97	ND	139.24	1.8	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
	12/08/2014	147.21	6.19	ND	141.02	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	09/17/2015	147.21	8.00	ND	139.21	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	12/16/2015	147.21	7.90	ND	139.31	<1.0	<1.0	<1.0	<3.0	<1.0	15	<100	<100	<100	
	03/08/2016	147.21	6.98	ND	140.23	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	06/07/2016	147.21	7.50	ND	139.71	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	09/26/2016	147.21	8.30	ND	138.91	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	12/20/2016	147.21	7.33	ND	139.88	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	03/28/2017	147.21	6.41	ND	140.80	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
	06/28/2017	147.21	7.03	ND	140.18	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
	09/19/2017	147.21	7.81	ND	139.40	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
	03/19/2018	147.21	6.26	ND	140.95	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
	06/06/2018	147.21	7.28	ND	139.93	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	12/03/2018	147.21	5.49	ND	141.72	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	03/25/2019	147.21	6.20	ND	141.01	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	06/24/2019	147.21	6.81	ND	140.40	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	10/17/2019	147.21	7.50	ND	139.71	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	12/18/2019	147.21	5.67	ND	141.54	<2.0	<2.0	<2.0	<6.0	<2.0	<10	<200	<200	<200	
05/11/2020	147.21	6.61	ND	140.60	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100		
09/24/2020	147.21	8.07	ND	139.14	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100		
12/21/2020	147.21	7.01	ND	140.20	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100		
03/22/2021	147.21	6.71	ND	140.50	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100		
06/16/2021	147.21	7.16	ND	140.05	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100		
09/17/2021	147.21	6.73	ND	140.48	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100		
12/17/2021	147.21	6.96	ND	140.25	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100		
03/16/2022	147.21	6.31	ND	140.90	<2.0	<2.0	<2.0	<6.0	<2.0	<10.0	<200	<200	<200		
07/11/2022	147.21	7.65	ND	139.56	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100		

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater												
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
MW-2 (GW-1,2,3) 5'-15'	04/03/1997	147.95	6.86	ND	141.09	821	3,790	381	2,484	19,300	NA	NA	NA	NA
	07/21/1997	147.95	8.91	ND	139.04	1,100	4,400	480	3,600	100,000	NA	NA	NA	NA
	10/22/1997	147.95	10.08	ND	137.87	2,600	4,900	810	5,900	190,000	NA	NA	NA	NA
	05/04/1998	147.95	7.58	ND	140.37	1,400	8,500	900	6,900	14,000	NA	NA	NA	NA
	05/20/1998	147.95	NG	NG	NA	880	3,300	320	2,600	80,000	NA	NA	NA	NA
	07/30/1998	147.95	7.97	ND	139.98	890	4,700	600	4,600	2,500	NA	NA	NA	NA
	09/11/1998	147.95	8.65	ND	139.30	460	4,200	550	4,000	1,800	NA	NA	NA	NA
	10/26/1998	147.95	8.37	ND	139.58	210	1,800	250	2,000	5,500	NA	NA	NA	NA
	11/13/1998	147.95	8.54	ND	139.41	<500	1,700	280	2,200	5,100	NA	NA	NA	NA
	12/17/1998	147.95	8.69	ND	139.26	510	3,200	540	3,900	16,000	NA	NA	NA	NA
	01/06/1999	147.95	8.24	ND	139.71	<2,000	3,300	400	3,400	34,000	NA	NA	NA	NA
	02/09/1999	147.95	6.90	ND	141.05	1,500	8,900	800	5,800	15,000	NA	NA	NA	NA
	03/29/1999	147.95	6.72	ND	141.23	640	3,500	640	4,500	4,400	NA	NA	NA	NA
	06/24/1999	147.95	8.25	ND	139.70	513	5,890	1,110	7,160	10,300	280	4,000	6,100	9,000
	11/04/1999	147.95	7.48	ND	140.47	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	01/03/2000	147.95	8.37	ND	139.58	1,580	6,430	890	5,220	60,100	240	<2500	5,400	11,300
	02/16/2000	147.95	7.83	ND	140.12	1,630	8,130	1,030	6,090	35,900	220	<2500	7,700	10,200
	02/25/2000	147.95	7.54	ND	140.41	1,100	6,600	660	4,400	27,000	NS	NS	NS	NS
	04/14/2000	147.95	7.40	ND	140.55	1,500	11,600	1,320	7,980	22,000	310	<5,000	8,800	9,400
	08/21/2000	147.95	8.35	ND	139.60	1,330	8,860	1,300	8,240	29,000	340	<5,000	6,800	11,800
	11/20/2000	147.95	7.60	ND	140.35	2,410	13,800	2,230	14,970	40,700	646	<5,000	8,130	21,400
	02/26/2001	147.95	7.67	ND	140.28	658	5,220	1,010	6,390	11,000	251	2,000	9,000	7,900
	07/16/2001	147.95	7.73	ND	140.22	2,910	11,900	1,480	9,500	61,500	439	<2,500	11,200	14,200
	01/22/2002	147.95	8.70	ND	139.25	1,830	13,300	2,550	18,820	22,900	1,420	10,600	17,500	55,600
	05/07/2002	147.95	7.66	ND	140.29	588	9,840	1,700	12,260	6,620	454	7,550	7,800	16,600
	10/02/2002	147.55	9.43	ND	138.12	205	2,360	900	5,780	6,850	288	1,390	2,300	7,820
	05/10/2003	147.55	7.20	ND	140.35	51.6	3,440	825	8,110	1,140	511	7,350	<50	11,000
	11/13/2003	147.55	8.29	ND	139.26	19.5	697	404	2,359	2,910	309	456	667	9,750
	05/18/2004	147.55	7.95	ND	139.60	1.6	549	490	2,894	159	186	1,990	3,360	7,550
	11/18/2004	147.55	NG	NG	NA	1.4	408	324	2,868	98.4	144	2,260	3,860	4,650
	06/20/2005	147.55	7.96	ND	139.59	<1.00	95.4	381	2,369	231	131	2,430	<1,000	4,110
	12/16/2005	147.55	7.48	ND	140.07	<1.00	24.7	85.9	454	63.7	33.9	703	<500	1,710
	06/27/2006	147.55	6.82	ND	140.73	<1.00	<3.00	10.7	32.97	58.3	5.74	110	<100	277
	12/14/2006	147.55	8.02	ND	139.53	2.66	6.94	88.8	257.5	<3.00	33.0	1,210	674	2,020
	07/11/2007	147.55	8.42	ND	139.13	<1.00	5.00	79.1	257.9	<3.00	39.5	1,400	2,630	3,010
	10/17/2007	147.55	9.06	ND	138.49	<1.00	4.96	48.8	112.1	<3.00	20.9	768	1,530	1,120
	01/08/2008	147.55	7.76	ND	139.79	<1.00	6.09	93.6	387.6	<3.00	50.9	1,180	<500	2,910
	03/21/2008	147.55	6.85	ND	140.70	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/20/2008	147.55	8.19	ND	139.36	<1.00	6.52	86.0	243.9	11.5	46.8	1,350	1,220	2,690
	09/25/2008	147.55	8.18	ND	139.37	5.90	<3.00	52.0	112.8	<3.00	30.3	786	<500	1,900
25-Sep-08 Dup	147.55	8.18	ND	139.37	5.94	<3.00	50.7	114.6	<3.00	28.1	803	<500	1,780	
12/23/2008	147.55	7.50	ND	140.05	1.84	3.71	56.1	218.2	3.74	36.4	1,060	566	2,950	
03/10/2009	147.55	7.01	ND	140.54	1.89	<3.00	23.3	66.7	<3.00	14.9	597	750	1,290	
3/10/2009 Dup	147.55	7.01	ND	140.54	1.96	<3.00	23.3	66.5	<3.00	14.9	609	700	1,220	
06/22/2009	147.55	7.32	ND	140.23	4.96	3.46	35.6	118.2	6.32	29	1,040	1,520	2,140	
09/17/2009	147.55	7.80	ND	139.75	1.69	<3.00	16.4	44.7	3.52	12.5	418	<500	761	
9/17/2009 Dup	147.55	7.80	ND	139.75	1.54	<3.00	16.2	44.6	3.42	13.5	431	<500	670	
12/23/2009	147.55	7.70	ND	139.85	2.06	<3.00	20.2	83.3	<3.00	16.7	778	<500	1,940	
04/21/2010	147.55	8.51	ND	139.04	1.63	<3.00	9.32	7.54	<3.00	5.68	323	174	569	
4/21/2010 Dup	147.55	8.51	ND	139.04	1.52	<3.00	9.84	7.93	<3.00	5.92	341	235	566	
06/10/2010	147.55	8.25	ND	139.30	2.93	<3.00	19.5	53.3	4.14	16.9	1,350	757	1,800	
09/30/2010	147.55	9.55	ND	138.00	<10.0	<10.0	17.0	69.4	<10.0	24.1	481	1,200	600	
12/29/2010	147.55	8.02	ND	139.53	<5.00	<5.00	5.0	<15.00	<5.00	5.0	163	264	129	
03/31/2011	147.55	7.22	ND	140.33	<5.00	<5.00	5.0	<15.00	<5.00	5.0	<75	59.4	25.3	
06/28/2011	147.55	7.53	ND	140.02	<5.0	26.6	14.6	38.1	<5.0	7.3	307	442	219	
09/28/2011	147.55	7.97	ND	139.58	<5.0	<5.0	20.4	67.1	<5.0	15.0	313	709	431	
12/22/2011	147.55	7.77	ND	139.78	<5.0	<5.0	10.2	22.6	<5.0	8.9	356	534	263	
03/08/2012	147.55	7.66	ND	139.89	<5.0	<5.0	5.0	<15.0	<5	5.2	121	205	174	
06/20/2012	147.55	8.24	ND	139.31	<5.0	<5.0	15.5	36.6	<5.0	20.3	542	390	916	
09/10/2012	147.55	8.67	ND	138.88	<5.0	<5.0	24.3	57.7	<5.0	27.2	447	1,100	1,350	
12/12/2012	147.55	8.49	ND	139.06	<5.0	<5.0	6.6	<15.0	<5.0	8.0	347	167	406	
03/27/2013	147.55	13.16	ND	134.39	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75	30.4	27.2	
06/19/2013	147.55	7.35	ND	140.20	<5.0	<5.0	8.1	18.8	<5.0	10.3	215	103	336	
12/16/2013	147.55	8.63	ND	138.92	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75	34.8	36.4	
03/26/2014	147.55	7.43	ND	140.12	<5.0	<5.0	7.04	<15.0	<5.0	5.81	124	142	200	
Destroyed April 2014														

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater													
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)	
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200	
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000	
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000	
MW-2R (GW-1,2,3)	06/30/2014	NM	8.96	ND	NM	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
	09/11/2014	NM	9.22	ND	NM	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
	12/08/2014	NM	7.66	ND	NM	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	03/31/2015	NM	7.40	ND	NM	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	09/17/2015	NM	9.25	ND	NM	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	12/16/2015	NM	9.05	ND	NM	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	03/08/2016	NM	8.44	ND	NM	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	06/07/2016	NM	8.75	ND	NM	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	09/26/2016	NM	9.43	ND	NM	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	12/20/2016	NM	8.68	ND	NM	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	03/28/2017	NM	7.94	ND	NM	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
	06/28/2017	NM	8.40	ND	NM	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
	09/19/2017	NM	9.22	ND	NM	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
	12/27/2017	NM	8.91	ND	NM	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
	03/19/2018	NM	7.94	ND	NM	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
	06/06/2018	NM	8.67	ND	NM	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
	12/03/2018	NM	7.17	ND	NM	<1.0	<1.0	<1.0	1.8	<1.0	<5.0	<100	<100	<100	
MW-2D (GW-1,3) 25-35'	11/20/2000	148.24	7.95	ND	140.29	18.3	245	407	2,830	697	193	1,450	3,170	4,250	
	02/26/2001	148.24	8.04	ND	140.20	<1.0	<5.0	9	34.7	8.2	9.1	380	220	220	
	07/16/2001	148.24	9.11	ND	139.13	<5.0	<5.0	<5.0	7.3	52.4	6.7	62.4	<50	68.3	
	01/22/2002	148.24	8.98	ND	139.26	<5.0	<5.0	<5.0	9.5	<5.0	<5.0	189	<50	113	
	05/07/2002	148.24	8.05	ND	140.19	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50	
	10/02/2002	147.84	9.59	ND	138.25	<2.0	<2.0	<2.0	12.8	67	<3.0	<50	<50	<50	
	11/18/2002	147.84	7.71	ND	140.13	<2.0	<2.0	2.1	4.9	<2.0	<3.0	139	<50	143	
	05/10/2003	147.84	7.51	ND	140.33	<2.0	<2.0	<2.0	2	<2.0	<3.0	<50	<50	<50	
	11/13/2003	147.84	8.66	ND	138.88	<2.0	<2.0	<2.0	<4.0	4.7	<3.0	<50	<50	<50	
	05/18/2004	147.84	8.32	ND	139.52	<1.00	<3.0	<1.0	<6.0	3.3	<5.0	<100	<100	<100	
	11/18/2004	147.84	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100	
	MW-3 (GW-1,2,3) 5-15'	01/31/1997	148.02	8.38	ND	139.64	122	59	93	770	960	NA	NA	NA	NA
		10/22/1997	148.02	10.60	ND	137.42	7	<1.0	<1.0	7	290	NA	NA	NA	NA
		05/04/1998	148.02	8.18	ND	139.84	140	370	180	1,500	1,000	NA	NA	NA	NA
		07/30/1998	148.02	8.94	ND	139.08	220	110	16	73	1,100	NA	NA	NA	NA
		09/11/1998	148.02	9.64	ND	138.38	80	<1.0	17	<3	450	NA	NA	NA	NA
		10/26/1998	148.02	8.98	ND	139.04	35	<10	14	20	640	NA	NA	NA	NA
11/13/1998		148.02	9.14	ND	138.88	<100	27	15	28	2,400	NA	NA	NA	NA	
12/17/1998		148.02	9.39	ND	138.63	4	<1.0	1	<3	120	NA	NA	NA	NA	
01/06/1999		148.02	8.79	ND	139.23	<50	41	32	250	9,100	NA	NA	NA	NA	
02/09/1999		148.02	8.12	ND	139.90	60	170	110	800	11,000	NA	NA	NA	NA	
03/29/1999		148.02	7.95	ND	140.07	120	340	70	330	1,700	NA	NA	NA	NA	
06/24/1999		148.02	9.25	ND	138.77	3.6	<5.0	<5.0	<15	749	<5	<100	130	230	
11/04/1999		148.02	8.65	ND	139.37	270	373	<25	142	13,200	<25	<500	<500	580	
01/03/2000		148.02	8.94	ND	139.08	13.4	<5.0	<5.0	<15	2,620	<5.0	<100	<100	160	
02/25/2000		148.02	8.18	ND	139.84	620	1,900	210	1,200	42,000	NS	NS	NS	NS	
04/14/2000		148.02	8.41	ND	139.61	695	2,380	372	1,929	3,370	0	<1,000	3,100	3,300	
08/21/2000		148.02	9.10	ND	138.92	118	8.5	104	34.1	7,950	0.0	<100	600	870	
11/20/2000		148.02	8.52	ND	139.50	300	168	70.5	316	3,250	0.0	<50	200	645	
02/26/2001		148.02	8.44	ND	139.58	384	926	410	1,763	9,880	0	<500	2,800	2,500	
07/16/2001		148.02	9.41	ND	138.61	188	<10	<10	<20	7,010	<10	<100	<100	117	
01/22/2002		148.02	9.40	ND	138.62	105	<10	97.4	106.1	1,960	0.0	<100	164	566	
05/07/2002		148.02	8.31	ND	139.71	213	746	372	1,560	1,950	78.1	544	1,130	2,990	
10/02/2002		147.60	9.93	ND	137.67	<2.0	<2.0	<2.0	<4.0	25.6	<3.0	<50	<50	<50	
05/10/2003		147.60	8.11	ND	139.49	18.1	249	318	963	520	61.8	489	<50	1,860	
11/13/2003		147.60	8.73	ND	138.87	<2.0	13.7	29	134	46.9	3.4	<50	<50	170	
05/18/2004		147.60	8.51	ND	139.09	<1.00	10.4	172	392	63	26.6	102	242	979	
11/19/2004		147.60	NG	NG	NA	<1.00	4.7	24.2	66.1	8.9	<5.0	<100	<100	<100	
06/20/2005		147.60	8.54	ND	139.06	<1.00	<3.00	3.9	18.9	17.5	10.2	<100	<100	<100	
12/16/2005		147.60	7.94	ND	139.66	<1.00	<3.00	13.0	18.24	23.4	6.60	199	281	539	
06/27/2006		147.60	7.55	ND	140.05	1.96	<3.00	87.8	171.7	326	38.7	481	1,820	1,910	
12/14/2006		147.60	8.63	ND	138.97	<1.00	<3.00	2.29	<6.00	<3.00	<5.00	<100	146	<50	
07/11/2007		147.60	9.06	ND	138.54	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
01/08/2008		147.60	8.32	ND	139.28	<1.00	<3.00	6.94	<6.00	<3.00	<5.00	<100	<100	339	
06/20/2008		147.60	8.74	ND	138.86	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100	
06/22/2009		147.60	8.20	ND	139.40	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	152	
12/23/2009		147.60	8.31	ND	139.29	3.41	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	125	
06/10/2010		147.60	8.93	ND	138.67	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100	
06/19/2013		147.60	8.11	ND	139.49	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<75	<25	<25	
03/26/2014		147.60	8.21	ND	139.39	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<75	<25	<25	
06/30/2014		147.60	9.09	ND	138.51	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
03/31/2015	147.60	7.70	ND	139.90	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100		
09/17/2015	147.60	9.40	ND	138.20	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100		
12/16/2015	147.60	9.03	ND	138.57	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100		
03/08/2016	147.60	8.55	ND	139.05	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100		
06/07/2016	147.60	8.80	ND	138.80	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100		
09/26/2016	147.60	9.52	ND	138.08	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100		
12/20/2016	147.60	8.74	ND	138.86	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100		
03/28/2017	147.60	8.04	ND	139.56	<1.0	19	12	96	<1.0	6.8	140	<100	320		
06/28/2017	147.60	8.42	ND												

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater												
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
MW-4 (GW-1,2,3) 5-15'	04/03/1997	147.95	7.46	ND	140.49	4,720	9,150	402	2,533	34,400	NA	NA	NA	NA
	07/21/1997	147.95	9.36	ND	138.59	2,700	18,000	600	4,600	24,000	NA	NA	NA	NA
	10/22/1997	147.95	10.40	ND	137.55	3,400	16,000	700	5,900	25,000	NA	NA	NA	NA
	05/04/1998	147.95	8.00	ND	139.95	2,900	17,000	890	7,400	3,900	NA	NA	NA	NA
	07/30/1998	147.95	8.59	ND	139.36	2,600	17,000	990	7,700	3,200	NA	NA	NA	NA
	09/11/1998	147.95	9.00	ND	138.95	370	9,000	710	4,400	3,000	NA	NA	NA	NA
	10/26/1998	147.95	8.79	ND	139.16	320	3,900	250	1,700	3,700	NA	NA	NA	NA
	11/13/1998	147.95	8.97	ND	138.98	200	3,300	250	1,600	970	NA	NA	NA	NA
	12/17/1998	147.95	9.18	ND	138.77	250	5,500	430	2,800	1,600	NA	NA	NA	NA
	01/06/1999	147.95	8.65	ND	139.30	210	5,200	590	3,600	2,700	NA	NA	NA	NA
	02/09/1999	147.95	7.90	ND	140.05	200	4,600	530	3,700	4,000	NA	NA	NA	NA
	03/29/1999	147.95	7.65	ND	140.30	90	2,100	500	2,800	3,400	NA	NA	NA	NA
	06/24/1999	147.95	9.63	ND	138.32	115	3,910	1,210	8,300	11,800	280	<2,500	8,400	8,600
	11/04/1999	147.95	8.48	ND	139.47	113	550	150	974	5,220	74	<1,000	1,000	2,400
	01/03/2000	147.95	8.78	ND	139.17	491	2,410	580	3,510	3,520	177	1,000	4,400	6,400
	02/16/2000	147.95	8.28	ND	139.67	243	854	281	1,548	2,340	73	<500	2,400	3,170
	04/14/2000	147.95	7.92	ND	140.03	632	3,550	890	5,580	4,140	210	<2,500	7,700	7,000
	08/21/2000	147.95	8.82	ND	139.13	932	5,100	400	2,550	37,100	<250	<5,000	<5,000	9,500
	11/20/2000	147.95	8.25	ND	139.70	537	1,290	343	527	12,300	86	<100	531	1,570
	02/26/2001	147.95	8.67	ND	139.28	455	3,190	942	5,490	5,000	245	<1,000	8,300	8,500
	07/16/2001	147.95	9.22	ND	138.73	1,940	4,200	600	3,380	70,500	181	<500	5,480	9,190
	09/07/2001	147.95	9.82	ND	138.13	366	432	432	1,672	42,000	128	<100	1,530	2,640
	01/22/2002	147.95	9.28	ND	138.67	555	3,240	887	3,150	6,130	<250	<2,500	<2,500	3,750
	05/07/2002	147.95	8.14	ND	139.81	199	1,740	291	1,660	2,350	52.9	727	850	2,460
	10/02/2002	147.67	8.82	ND	137.85	140	1,340	613	2,466	691	151	619	214	2,570
	05/10/2003	147.67	7.81	ND	139.86	24	705	187	851	425	45.6	1,100	<50	1,450
	11/12/2003	147.67	8.85	ND	138.82	6	792	292	1,299	132	127	612	103	3,010
	02/03/2004	147.67	8.86	ND	138.81	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/2004	147.67	8.38	ND	139.29	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/18/2004	147.67	8.36	ND	139.31	1.5	321	224	1,133	31.3	47	427	1,650	1,850
	11/19/2004	147.67	NG	NG	NA	1	142	490	2,566	11.4	186	762	3,560	4,380
	11/19/2004 Dup	147.67	NG	NG	NA	<1.0	126	500	2,646	9.8	176	648	3,370	4,480
	06/20/2005	147.67	7.7	ND	139.97	1.1	24.8	338	2,908	123	206	931	<2,000	7,300
	12/16/2005	147.67				Water runoff puddling over the well								
	06/27/2006	147.67	7.33	ND	140.34	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/14/2006	147.67	8.29	ND	139.38	<1.00	<3.00	8.29	41.3	<3.00	<5.00	<100	613	282
	07/11/2007	147.67	8.97	ND	138.70	<1.00	<3.00	43.2	153.8	<3.00	25.4	163	1,680	1,840
	01/08/2008	147.67	8.10	ND	139.57	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/20/2008	147.67	8.61	ND	139.06	<1.00	<3.00	16.6	16.02	<3.00	6.35	134	197	561
	01/14/2009	147.67	8.08	ND	139.59	<1.00	<3.00	7.15	7.13	<3.00	<5.00	134	275	731
	06/22/2009	147.67	6.35	ND	141.32	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	282
	12/23/2009	147.67	8.11	ND	139.56	3.23	<3.00	1.92	<6.00	<3.00	<5.00	183	184	562
	06/10/2010	147.67	8.74	ND	138.93	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	109	121	256
06/28/2011	147.67	8.07	ND	139.60	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<75.0	<25.0	<25.0	
09/28/2011	147.67	8.45	ND	139.22	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<75.0	66.6	<25.0	
12/22/2011	147.67	8.01	ND	139.66	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<75.0	<25.0	<25.0	
03/08/2012	147.67	8.15	ND	139.52	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<75.0	<25.0	<25.0	
06/20/2012	147.67	8.72	ND	138.95	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	49.1	60.4	
03/27/2013	147.67	7.70	ND	139.97	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	28	38.9	
12/16/2013	147.67	9.08	ND	138.59	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	<25.0	<25.0	
06/30/2014	147.67	8.95	ND	138.72	1.6	<1.0	<1.0	<2.0	16	<5.0	<100	<100	<100	
12/08/2014	147.67	7.61	ND	140.06	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
09/17/2015	147.67	9.26	ND	138.41	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
12/16/2015	147.67	8.95	ND	138.72	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
03/08/2016	147.67	8.36	ND	139.31	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
09/26/2016	147.67	9.40	ND	138.27	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
12/20/2016	147.67	8.41	ND	139.26	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
03/28/2017	147.67	2.39	ND	145.28	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
06/28/2017	147.67	7.22	ND	140.45	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
12/27/2017	147.67	8.80	ND	138.87	<1.0	1.2	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
03/19/2018	147.67	7.88	ND	139.79	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<100	<100	<100	
06/06/2018	147.67	8.73	ND	138.94	<1.0	1.2	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
12/03/2018	147.67	7.09	ND	140.58	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100	
MW-5D (GW-1,3) 26-31'	10/02/2002	147.44	9.47	ND	137.97	82.7	740	612	4,280	1,410	290	1,260	895	3,950
	11/18/2002	147.44	7.91	ND	139.53	26.4	4.1	268	659	378	184	1,930	1,080	2,880
	05/10/2003	147.44	7.24	ND	140.20	8.4	2.3	76.5	140.8	131	51.8	699	<50	728
	11/13/2003	147.44	8.56	ND	138.88	<2.0	<2.0	28.6	7.8	172	8.5	117	<50	235
	05/18/2004	147.44	7.99	ND	139.45	<1.00	<3.0	9.1	<6.0	18	<5.0	<100	<100	<100
	11/18/2004	147.44	NG	NG	NA	<1.00	<3.0	1.8	<6.0	11	<5.0	<100	<100	<100
	06/20/2005	147.44	7.92	ND	139.52	<1.00	<3.0	3.7	<6.0	6.0	<5.0	<100	<100	<100
	12/16/2005	147.44	7.38	ND	140.06	<1.00	<3.00	1.88	<4.00	3.84	<5.00	<100	<100	<100
	06/27/2006	147.44	6.90	ND	140.54	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	07/11/2007	147.44	9.05	ND	138.39	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
01/08/2008	147.44	7.72	ND	139.72	<1.00	<3.00	23.3	72.6	<3.00	7.71	<100	<100	557	
06/20/2008	147.44	8.25	ND	139.19	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100	
12/23/2008	147.44	7.52	ND	NA	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
06/22/2009	147.44	7.58	ND	139.86	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater												
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-A (GW-1,3) 1-14'	06/22/1998	144.74	4.84	ND	139.90	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	07/30/1998	144.74	5.67	ND	139.07	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	09/11/1998	144.74	6.57	ND	138.17	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	10/26/1998	144.74	5.72	ND	139.02	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	11/13/1998	144.74	5.85	ND	138.89	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	12/17/1998	144.74	6.12	ND	141.62	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	01/06/1999	144.74	5.57	ND	139.17	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	02/09/1999	144.74	5.50	ND	139.24	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	03/29/1999	144.74	4.82	ND	139.92	<1.0	<1.0	<1.0	<3	1	NA	NA	NA	NA
	06/24/1999	144.74	5.89	ND	138.85	<1.0	<5.0	<5.0	<15	<5.0	<5	<100	<100	<100
	11/20/2000	144.74	5.26	ND	139.48	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	10/02/2002	144.34	6.88	ND	137.46	<2.0	<2.0	<2.0	<4.0	<2.0	<3.0	<50	<50	<50
11/13/2003	144.34	5.32	ND	139.02	<2.0	<2.0	<2.0	<4.0	<2.0	<3.0	<50	<50	<50	
OW-B (GW-1,3) 3.5-1 6.5'	01/31/1997	148.52	9.54	ND	138.98	67	626	860	6,970	15,100	NA	NA	NA	NA
	04/03/1997	148.52	10.04	ND	138.48	128	297	512	3,880	9,930	NA	NA	NA	NA
	07/21/1997	148.52	10.72	ND	137.80	250	700	560	4,200	14,000	NA	NA	NA	NA
	10/22/1997	148.52	11.53	ND	136.99	400	400	500	3,100	26,000	NA	NA	NA	NA
	05/04/1998	148.52	9.26	ND	139.26	90	100	140	1,200	5,900	NA	NA	NA	NA
	07/30/1998	148.52	10.25	ND	138.27	<500	350	480	2,400	8,800	NA	NA	NA	NA
	09/11/1998	148.52	11.04	ND	137.48	290	490	500	3,200	11,000	NA	NA	NA	NA
	10/26/1998	148.52	10.35	ND	138.17	550	910	610	3,200	12,000	NA	NA	NA	NA
	11/13/1998	148.52	10.40	ND	138.12	500	1,400	670	4,500	15,000	NA	NA	NA	NA
	12/17/1998	148.52	10.71	ND	137.79	320	850	590	4,400	6,500	NA	NA	NA	NA
	01/06/1999	148.52	10.09	ND	138.43	<500	380	450	3,500	4,000	NA	NA	NA	NA
	02/09/1999	148.52	9.63	ND	138.89	100	540	510	4,300	7,000	NA	NA	NA	NA
	03/29/1999	148.52	9.52	ND	139.00	230	400	450	3,500	9,000	NA	NA	NA	NA
	06/24/1999	148.52	10.72	ND	137.80	457	780	540	3,920	8,680	<250	<5,000	<5,000	5,100
	11/04/1999	148.52	9.94	ND	138.58	179	750	440	2,830	10,500	170	<2,500	<2,500	7,300
	01/03/2000	148.52	10.20	ND	138.32	265	542	460	2,890	20,500	217	<1,000	4,100	7,100
	02/16/2000	148.52	9.76	ND	138.76	433	890	463	3,020	22,200	202	<1,000	5,400	7,000
	02/25/2000	148.52	9.37	ND	139.15	450	860	450	3,300	30,000	NS	NS	NS	NS
	04/14/2000	148.52	6.73	ND	141.79	409	880	560	4,180	13,100	250	<2,500	6,200	6,800
	08/21/2000	148.52	10.22	ND	138.30	262	1,230	655	4,330	9,270	254	<1,000	5,100	7,100
	11/20/2000	148.52	9.45	ND	139.07	13.2	28.2	12.2	115.2	2,250	<5	<50	75.5	252
	02/26/2001	148.52	9.38	ND	139.14	<1.0	<5.0	<5.0	<15	41	<5	<100	<100	<100
	07/16/2001	148.52	10.64	ND	137.88	214	108	253	431.2	11,400	81.4	<100	842	1,380
	09/07/2001	148.52	11.26	ND	137.26	1940	5,250	953	8,460	19,800	199	<250	4570	8,070
	01/22/2002	148.52	11.68	ND	136.84	97.4	<50	90.6	335	5,070	<50	<500	<500	1,520
	05/07/2002	148.52	9.43	ND	139.09	185	75.5	291	1,108	7,450	121	345	1,060	4,030
	10/02/2002	148.12	10.92	ND	137.20	<2.0	<2.0	<2.0	<4.0	76	<3.0	<50	<50	<50
	05/10/2003	148.12	9.28	ND	138.84	<2.0	<2.0	2.4	2.9	24	<3.0	<50	<50	<50
	11/13/2003	148.12	10.03	ND	138.6	<2.0	<2.0	<2.0	<2.0	7	<3.0	<50	<50	<50
	05/18/2004	148.12	9.75	ND	138.37	22.7	<3.0	128	44.1	2,410	<5.0	127	248	1,120
	11/17/2004	148.12	NG	NG	NA	6.4	12.2	175	386.8	154	81.7	504	2,090	2,440
	06/02/2005	148.12	10.03	ND	138.09	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	12/16/2005	148.12	9.23	ND	138.89	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	06/27/2006	148.12	8.71	ND	139.41	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/14/2006	148.12	9.84	ND	138.28	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	07/10/2007	148.12	9.98	ND	138.14	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	10/17/2007	148.12	10.56	ND	137.56	<1.00	<3.00	<1.00	<6.00	3.91	<5.00	<100	199	95.9
	01/08/2008	148.12	9.30	ND	138.82	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	78.5
	03/21/2008	148.12	8.52	ND	139.60	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/20/2008	148.12	9.74	ND	138.38	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	118	<500
	09/25/2008	148.12	9.81	ND	138.31	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	76.2
	12/18/2008	148.12	8.90	ND	139.22	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	03/10/2009	148.12	8.75	ND	139.37	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	124	<100
	06/22/2009	148.12	9.16	ND	138.96	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	153	<100	259
	09/17/2009	148.12	9.53	ND	138.59	1.14	<3.00	2.51	4.04	<3.00	<5.00	164	126	248
	12/23/2009	148.12	9.30	ND	138.82	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	04/21/2010	148.12	9.31	ND	138.81	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	57.7
	06/11/2010	148.12	9.83	ND	138.29	1.40	<3.00	<1.00	<6.00	<3.00	<5.00	151	109	191
	06/28/2011	148.12	9.56	ND	138.56	<5.0	<5.0	<5.0	<10.0	<5.0	10.5	160	152	81.7
	12/12/2012	148.12	9.98	ND	138.14	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	184	42.8	73.9
	03/26/2014	148.12	9.25	ND	138.87	<5.0	<5.0	<5.0	<10.0	<5.0	8.7	127	99.3	76.3
	09/11/2014	148.12	10.44	ND	137.68	<1.0	<1.0	1.6	<2.0	1.5	<5.0	190	<100	130

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater												
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-BD (GW-1,3) 20'-25'	11/20/2000	147.93	9.38	ND	138.55	124	12.6	151	201.6	8,170	38.4	<50	238	782
	02/26/2001	147.93	9.06	ND	138.87	84	<5.0	108	128	4,520	18.7	<100	380	420
	01/22/2002	147.93	10.20	ND	137.73	<5.0	<5.0	<5.0	<10	646	10	<50	<50	<50
	05/07/2002	147.93	8.96	ND	138.97	<5.0	<5.0	<5.0	<10	870	<5.0	<50	<50	<50
	10/02/2002	147.65	10.44	ND	137.21	29.1	<2.0	72.1	62.7	1,480	<3.0	<50	<50	145
	05/10/2003	147.65	8.83	ND	138.82	16.4	3.2	134	102.6	967	34.2	<50	<50	710
	11/13/2003	147.65	9.55	ND	138.10	<2.0	<2.0	4.1	4.7	254	<3.0	<50	<50	64
	05/18/2004	147.65	9.27	ND	138.38	1.3	<3.0	2.1	<6.0	113	<5.0	<100	<100	<100
	11/17/2004	147.65	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	3.5	<5.0	<100	<100	<100
	06/02/2005	147.65	9.58	ND	138.07	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	12/16/2005	147.65	8.78	ND	138.87	<1.00	<3.00	<1.0	<4.00	<3.00	<5.00	<100	<100	<100
	06/27/2006	147.65	8.21	ND	139.44	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/14/2006	147.65	9.40	ND	138.25	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	07/10/2007	147.65	9.48	ND	138.17	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	01/08/2008	147.65	8.82	ND	138.83	<1.00	<3.00	<1.00	<6.00	4.29	<5.00	<100	<100	<100
	06/20/2008	147.65	9.28	ND	138.37	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/18/2008	147.65	8.41	ND	139.24	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/22/2009	147.65	8.67	ND	138.98	<1.00	<3.00	<1.00	<6.00	18	<5.00	<100	<100	<100
	12/23/2009	147.65	8.80	ND	138.85	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/11/2010	147.65	9.40	ND	138.25	<1.00	<3.00	<1.00	<6.00	20.2	<5.00	<100	<100	<100
OW-C (GW-1,3) 0.3'-12'	05/04/1998	141.22	2.65	ND	138.57	<1.0	<1.0	<1.0	<3	84	NA	NA	NA	NA
	11/13/1998	141.22	3.04	ND	138.18	<1.0	<1.0	<1.0	<3	1	NA	NA	NA	NA
	12/17/1998	141.22	3.31	ND	137.91	<1.0	<1.0	<1.0	<3	2	NA	NA	NA	NA
	01/06/1999	141.22	2.95	ND	138.27	<1.0	<1.0	<1.0	<3	8	NA	NA	NA	NA
	02/09/1999	141.22	5.85	ND	135.37	<1.0	<1.0	<1.0	<3	<1	NA	NA	NA	NA
	03/29/1999	141.22	2.55	ND	138.67	<1.0	<1.0	<1.0	<3	43	NA	NA	NA	NA
	06/24/1999	141.22	3.28	ND	137.94	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	11/04/1999	141.22	2.90	ND	138.32	<1.0	<5.0	<5.0	<15	24.6	<5.0	<100	<100	<100
	12/14/2006	140.82	2.5	ND	138.32	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	07/10/2007	140.82	2.83	ND	137.99	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	01/08/2008	140.82	2.28	ND	138.54	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/20/2008	140.82	2.70	ND	138.12	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
01/14/2009	140.82	2.25	ND	138.57	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
06/22/2009	140.82	2.21	ND	138.61	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
06/10/2010	140.82	3.02	ND	137.80	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
OW-D (GW-1,3) 1'-9'	11/04/1999	141.36	3.49	ND	139.25	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	11/20/2000	141.36	3.56	ND	137.80	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<50	<50
OW-ED (GW-1,3) 25'-35'	11/20/2000	148.60	9.73	ND	138.87	6.8	<5.0	<5.0	<10	326	<5.0	<50	<50	<50
	02/26/2001	148.60	9.56	ND	139.04	8.1	<5.0	<5.0	<15	87.4	<5.0	<100	<100	<100
	10/02/2002	148.33	11.04	ND	137.29	3.5	<2.0	<2.0	<4.0	222	<3.0	<50	<50	<50
	11/18/2002	148.33	9.13	ND	139.20	3.5	<2.0	<2.0	<4.0	213	<3.0	<50	<50	<50
	05/10/2003	148.33	9.23	ND	139.10	<2.0	<2.0	<2.0	<4.0	22.2	<3.0	<50	<50	<50
	11/13/2003	148.33	10.04	ND	138.39	3.4	<1.0	<1.0	<1.0	186	NS	NS	NS	NS
	05/18/2004	148.33	9.77	ND	138.56	3.1	<3.0	<1.0	<6.0	45.4	<5.0	<100	<100	<100
	May 18 04 Dup	148.33	9.77	ND	138.56	3.6	<3.0	<1.0	<6.0	36.2	<5.0	<100	<100	<100
	11/17/2004	148.33	NG	NG	NA	4.4	<3.0	<1.0	<6.0	120	<5.0	<100	<100	<100
	06/02/2005	148.33	9.7	ND	138.63	1.9	<3.0	<1.0	<6.0	80.4	<5.0	<100	<100	<100
	12/15/2005	148.33	9.02	ND	139.31	<1.00	<3.00	<1.00	<4.00	105	<5.00	<100	<100	<100
	06/27/2006	148.33	8.60	ND	139.73	<1.00	<3.00	<1.00	<4.00	111	<5.00	<100	<100	<100
	12/14/2006	148.33	9.71	ND	138.62	<1.00	<3.00	<1.00	<6.00	117	<5.00	<100	<100	<100
	07/10/2007	148.33	10.03	ND	138.30	<1.00	<3.00	<1.00	<6.00	61.5	<5.00	<100	<100	<100
	01/08/2008	148.33	9.35	ND	138.98	<1.00	<3.00	<1.00	<6.00	55.2	<5.00	<100	<100	<100
	06/20/2008	148.33	9.88	ND	138.45	<1.00	<3.00	<1.00	<4.00	109	<5.00	<100	<100	<100
	12/18/2008	148.33	8.89	ND	139.44	<1.00	<3.00	<1.00	<6.00	113	<5.00	<100	<100	<100
	06/22/2009	148.33	9.18	ND	139.15	<1.00	<3.00	<1.00	<6.00	141	<5.00	<100	<100	<100
	12/23/2009	148.33	9.40	ND	138.93	<1.00	<3.00	<1.00	<6.00	164	<5.00	<100	<100	<100
	06/11/2010	148.33	10.00	ND	138.33	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/28/2011	148.33	10.17	ND	138.16	<5.0	<5.0	<5.0	<10.0	<5.0	<75.0	<25.0	<25.0	<25.0
	09/28/2011	148.33	09.71	ND	138.62	<5.0	<5.0	<5.0	<10.0	34.2	<5.0	<75.0	47.6	<25.0
	12/22/2011	148.33	09.11	ND	139.22	<5.0	<5.0	<5.0	<10.0	5	<5.0	<75.0	<25.0	<25.0
	09/10/2012	148.33	10.33	ND	138.00	<5.0	6.4	17.9	<10.0	5	13.3	162	190	188
	12/12/2012	148.33	10.05	ND	138.28	<5.0	<5.0	<5.0	<10.0	<5.0	<75.0	<25.0	<25.0	26.6
	03/27/2013	148.33	9.02	ND	139.31	<5.0	<5.0	<5.0	<10.0	<5.0	<75.0	<25.0	<25.0	<25.0
	06/19/2013	148.33	8.19	ND	140.14	<5.0	<5.0	<5.0	<10.0	<5.0	<75.0	<25.0	<25.0	<25.0
	12/16/2013	148.33	9.27	ND	139.06	<5.0	<5.0	<5.0	<15.0	<5.0	<75.0	<25.0	<25.0	<25.0
	03/31/2015	148.33	8.8	ND	139.53	<1.0	<1.0	<1.0	<3.0	16	<5.0	<100	<100	<100
	09/17/2015	148.33	24.5	ND	123.83	<1.0	<1.0	<1.0	<3.0	90	<5.0	<100	<100	<100
	12/16/2015	148.33	10.07	ND	138.26	<1.0	<1.0	<1.0	<3.0	28	<5.0	<100	<100	<100
	03/08/2016	148.33	9.61	ND	138.72	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<100	<100	<100
	06/07/2016	148.33	9.83	ND	138.50	<1.0	<1.0	<1.0	<3.0	7.9	<5.0	<100	<100	<100
	09/26/2016	148.33	10.65	ND	137.68	<1.0	<1.0	<1.0	<3.0	7.9	<5.0	<100	<100	<100
	12/20/2016	148.33	9.76	ND	138.57	<1.0	<1.0	<1.0						

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater												
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-F (GW-1,3) 5-15' Note: Well is confirmed to be obstructed	07/30/1998	147.08	8.07	ND	139.01	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	09/11/1998	147.08	8.90	ND	138.18	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	10/26/1998	147.08	8.08	ND	139.00	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	11/13/1998	147.08	8.25	ND	138.83	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	12/17/1998	147.08	8.56	ND	138.52	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	01/06/1999	147.08	7.92	ND	139.16	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	02/09/1999	147.08	7.05	ND	140.03	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	03/29/1999	147.08	6.85	ND	140.23	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	06/24/1999	147.08	8.53	ND	138.55	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
OW-G (GW-1,3) 5-15'	07/30/1998	147.57	8.91	ND	138.66	<5	<1.0	<1.0	<3	5	NA	NA	NA	NA
	09/11/1998	147.57	9.60	ND	137.97	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	10/26/1998	147.57	8.84	ND	138.73	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	11/13/1998	147.57	8.96	ND	138.61	<1.0	<1.0	<1.0	<3	1	NA	NA	NA	NA
	12/17/1998	147.57	9.23	ND	138.34	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	01/06/1999	147.57	8.62	ND	138.95	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	02/09/1999	147.57	8.00	ND	139.57	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	03/29/1999	147.57	7.85	ND	139.72	<1.0	<1.0	<1.0	9	10	NA	NA	NA	NA
	06/24/1999	147.57	9.30	ND	138.27	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	11/04/1999	147.57	8.47	ND	139.10	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	01/03/2000	147.57	8.75	ND	138.82	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	04/14/2000	147.57	8.32	ND	139.25	<1.0	<5.0	<5.0	<15	6.9	<5.0	<100	<100	<100
	10/02/2002	147.19	9.71	ND	137.48	<2.0	<2.0	<2.0	<4.0	<2.0	<3.0	<50	<50	<50
	05/10/2003	147.19	7.42	ND	139.77	<1.0	3	1.5	12.5	23.2	NS	NS	NS	NS
	05/18/2004	147.19	8.35	ND	138.84	<1.00	7.1	5	17.1	85.2	<5.0	<100	<100	<100
	11/19/2004	147.19	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	06/20/2005	147.19	8.26	ND	138.93	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	12/16/2005	147.19	6.49	ND	140.70	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	06/27/2006	147.19	7.00	ND	140.19	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/14/2006	147.19	8.34	ND	138.85	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	07/11/2007	147.19	8.78	ND	138.41	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	01/08/2008	147.19	8.07	ND	139.12	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/20/2008	147.19	8.51	ND	138.68	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	01/14/2009	147.19	7.92	ND	139.27	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
06/22/2009	147.19	7.80	ND	139.39	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
12/23/2009	147.19	8.00	ND	139.19	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
06/10/2010	147.19	8.70	ND	138.49	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
09/30/2010	147.19	9.78	ND	137.41	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75	<25	<25	
12/29/2010	147.19	8.93	ND	138.26	<5.00	<5.00	<5.00	<15.00	<5.00	<5.00	<75	<25	<25	
03/31/2011	147.19	7.58	ND	139.61	<5.00	<5.00	<5.00	<15.00	<5.00	<5.00	<75	<25	<25	
06/28/2011	147.19	7.81	ND	139.38	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<75.0	<25.0	<25.0	
OW-H (GW-1,3) 4-16'	05/20/1998	147.55	NG	ND	NG	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	07/30/1998	147.55	9.34	ND	138.21	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	09/11/1998	147.55	10.00	ND	137.55	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	10/26/1998	147.55	9.26	ND	138.29	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	11/13/1998	147.55	9.31	ND	138.24	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	12/17/1998	147.55	9.59	ND	137.96	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	01/06/1999	147.55	8.94	ND	138.61	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	02/09/1999	147.55	8.56	ND	138.99	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	03/29/1999	147.55	8.40	ND	139.15	<1.0	<1.0	<1.0	<3	<1.0	NA	NA	NA	NA
	06/24/1999	147.55	9.74	ND	137.81	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	10/02/2002	147.25	10.02	ND	137.23	<2.0	<2.0	<2.0	<4.0	<2.0	<3.0	<50	<50	<50
	05/18/2004	147.25	9.03	ND	138.22	<1.00	<3.0	<1.0	<6.0	3.5	<5.0	<100	<100	<100
	11/19/2004	147.25	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	06/02/2005	147.25	7.80	ND	139.45	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	12/16/2005	147.25	7.81	ND	139.44	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	06/27/2006	147.25	7.68	ND	139.57	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/13/2006	147.25	8.68	ND	138.57	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	07/10/2007	147.25	9.10	ND	138.15	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	01/07/2008	147.25	8.39	ND	138.86	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/20/2008	147.25	8.82	ND	138.43	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/18/2008	147.25	7.94	ND	139.31	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/22/2009	147.25	8.28	ND	138.97	<1.00	<3.00	<1.00	<6.00	4.0	<5.00	<100	<100	<100
	12/23/2009	147.25	8.47	ND	138.78	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/10/2010	147.25	9.11	ND	138.14	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater													
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)	
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200	
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000	
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000	
OW-I (GW-1,3) Total depth = 12.5'	05/27/1998	146.61	NG	ND	NG	<1.0	<1.0	<1.0	<3.0	200	NA	NA	NA	NA	
	07/30/1998	146.61	8.18	ND	138.43	24	<1.0	<1.0	<3.0	3,200	NA	NA	NA	NA	
	09/11/1998	146.61	8.81	ND	137.80	<1.0	<1.0	3	<3.0	2,800	NA	NA	NA	NA	
	10/26/1998	146.61	8.09	ND	138.52	<20	<1.0	<1.0	<3.0	2,100	NA	NA	NA	NA	
	11/13/1998	146.61	8.19	ND	138.42	<20	<1.0	<1.0	<3.0	1,200	NA	NA	NA	NA	
	12/17/1998	146.61	8.41	ND	138.20	<1.0	<1.0	<1.0	<3.0	780	NA	NA	NA	NA	
	01/06/1999	146.61	7.74	ND	138.87	<10	<1.0	<1.0	<3.0	670	NA	NA	NA	NA	
	02/09/1999	146.61	7.40	ND	139.21	<1.0	<1.0	<1.0	<3.0	360	NA	NA	NA	NA	
	03/29/1999	146.61	7.13	ND	139.48	13	<1.0	2	<3.0	1,400	NA	NA	NA	NA	
	04/26/1999	146.61	7.74	ND	138.87	8.8	<5.0	<5.0	<5.0	1,100	<5	<50	<50	<50	
	05/27/1999	146.61	7.84	ND	138.77	20	<1	26	<5.0	1,000	NA	NA	NA	NA	
	06/24/1999	146.61	8.62	ND	137.99	10.2	<5.0	28.1	<15	807	<5	<100	<100	<100	
	07/20/1999	146.61	8.81	ND	137.80	<5.0	<1	5	<3.0	530	NA	NA	NA	NA	
	11/04/1999	146.61	7.70	ND	138.91	<1.0	<5.0	<5.0	<15	104	<5.0	<100	<100	<100	
	01/03/2000	146.61	8.03	ND	138.58	<1.0	<5.0	<5.0	<15	61.4	<5.0	<100	<100	<100	
	02/16/2000	146.61	7.43	ND	139.18	<1.0	<5.0	<5.0	<15	61.3	<5.0	<100	<100	<100	
	02/25/2000	146.61	6.87	ND	139.74	<1.0	<1.0	<1.0	<3.0	100	NS	NS	NS	NS	
	04/14/2000	146.61	7.73	ND	138.88	<1.0	<5.0	<5.0	<15	96	<5.0	<100	<100	<100	
	08/21/2000	146.61	8.21	ND	138.40	<1.0	<5.0	<5.0	<15	28.5	<5.0	<100	<100	<100	
	11/20/2000	146.61	7.65	ND	138.96	<1.0	<5.0	<5.0	<10	244	<5.0	<50	<50	<50	
	02/26/2001	146.61	7.68	ND	138.93	<1.0	<5.0	<5.0	<15	510	<5.0	<100	<100	<100	
	07/16/2001	146.61	8.61	ND	138.00	<5.0	<5.0	<5.0	<10	873	<5.0	<50	<50	<50	
	01/22/2002	146.61	8.48	ND	138.13	<5.0	<5.0	<5.0	<10	2,540	<5.0	<50	<50	<50	
	05/07/2002	146.61	7.38	ND	139.23	<5.0	<5.0	<5.0	<10	561	17.8	<50	<50	<50	
	11/13/2003	145.43	7.91	ND	137.52	<1.0	<1.0	<1.0	<3.0	191	NS	NS	NS	NS	
	05/20/2004	145.43	7.67	ND	137.76	<1.00	<3.0	<1.0	<6.0	21.5	<5.0	<100	<100	<100	
	06/02/2005	145.43	7.27	ND	138.16	<1.00	<3.0	<1.0	<6.0	< 3.0	<5.0	<100	<100	<100	
	12/15/2005	145.43	6.13	ND	139.30	<1.00	<3.00	<1.00	<4.00	< 3.00	<5.00	<100	<100	<100	
	06/26/2006	145.43	6.19	ND	139.24	<1.00	<3.00	<1.00	<4.00	< 3.00	<5.00	<100	<100	<100	
	12/13/2006	145.43	7.54	ND	137.89	<1.00	<3.00	<1.00	<6.00	4.71	<5.00	<100	<100	<100	
	07/10/2007	145.43	7.99	ND	137.44	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	01/07/2008	145.43	7.34	ND	138.09	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	06/19/2008	145.43	7.71	ND	137.72	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100	
	01/14/2009	145.43	7.14	ND	138.29	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	06/19/2009	145.43	7.17	ND	138.26	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	12/22/2009	145.43	9.05	ND	136.38	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	06/10/2010	145.43	3.01	ND	142.42	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
OW-J (GW-1,3) Total depth = 12.8'	05/27/1998	146.63	NG	NG	NA	11	<1.0	<1.0	<3	2,900	NA	NA	NA	NA	
	07/30/1998	146.63	7.92	ND	138.71	<500	20	120	220	13,000	NA	NA	NA	NA	
	09/11/1998	146.63	8.50	ND	138.13	34	<1.0	1	<3	1,100	NA	NA	NA	NA	
	10/26/1998	146.63	7.87	ND	138.76	18	<1.0	<1.0	<3	830	NA	NA	NA	NA	
	11/13/1998	146.63	7.80	ND	138.83	<100	<1.0	6	<3	2,300	NA	NA	NA	NA	
	12/17/1998	146.63	8.56	ND	138.05	43	<1.0	21	<3	2,700	NA	NA	NA	NA	
	01/06/1999	146.63	7.52	ND	139.11	3	<1.0	<1	<3	720	NA	NA	NA	NA	
	02/09/1999	146.63	7.30	ND	139.33	35	1	24	<3	1500	NA	NA	NA	NA	
	03/29/1999	146.63	7.08	ND	139.55	<1.0	<1.0	<1.0	<3	100	NA	NA	NA	NA	
	04/26/1999	146.63	7.53	ND	139.10	116	<5.0	75.2	<15	5,150	62	<50	299	330	
	05/27/1999	146.63	7.54	ND	139.09	130	2	66	<3	6,500	NA	NA	NA	NA	
	06/24/1999	146.63	8.20	ND	138.43	54	<50	<50	<150	3,780	<50	<1,000	<1,000	<1,000	
	07/20/1999	146.63	8.34	ND	138.29	<10	<1.0	<1.0	<3	460	NA	NA	NA	NA	
	11/04/1999	146.63	7.50	ND	139.13	3	<5.0	<5.0	<15	473	<5.0	<100	<100	<100	
	01/03/2000	146.63	7.70	ND	138.93	9.7	<5.0	<5.0	<15	513	<5.0	<100	<100	<100	
	02/16/2000	146.63	7.44	ND	139.19	3.4	<5.0	<5.0	<15	165	<5.0	<100	<100	<100	
	02/25/2000	146.63	7.02	ND	139.61	4.6	<1.0	4.6	<3.0	260	NS	NS	NS	NS	
	04/14/2000	146.63	7.61	ND	139.02	<1.0	<5.0	<5.0	<15	194	<5.0	<100	<100	<100	
	08/21/2000	146.63	7.97	ND	138.66	10.5	<5.0	<5.0	<15	957	<5.0	<100	<100	<100	
	11/20/2000	146.63	7.74	ND	138.89	<5.0	<5.0	<5.0	<10	322	<5.0	<50	<50	<50	
	02/26/2001	146.63	8.63	ND	138.00	72.6	<5.0	35.2	<15	3,180	6.3	<100	150	200	
	07/16/2001	146.63	7.91	ND	138.72	43	<5.0	<5.0	<10	2,700	<5.0	<50	129	258	
	09/07/2001	146.63	9.59	ND	137.04	<5.0	<5.0	<5.0	<10	146	<5.0	<50	<50	54.8	
	05/07/2002	146.63	7.34	ND	139.29	<5.0	<5.0	<5.0	<10	512	<5.0	<50	<50	<50	
	05/20/2004	145.46	7.50	ND	137.96	<1.00	<3.0	<1.0	<6.0	144	<5.0	<100	<100	<100	
	11/08/2004	145.46	NG	NG	NA	<1.00	<3.0	8.1	<6.0	1,050	<5.0	<100	<100	<100	
	06/02/2005	145.46	7.4	ND	138.06	<1.00	<3.0	<3.0	<6.0	< 3.0	<5.0	<100	<100	<100	
	12/15/2005	145.46	5.71	ND	139.75	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100	
	06/26/2006	145.46	6.26	ND	139.20	<1.00	<3.00	<1.00	<4.00	< 3.00	<5.00	<100	<100	<100	
	12/13/2006	145.46	7.15	ND	138.31	<1.00	<3.00	<1.00	<6.00	3.70	<5.00	<100	<100	<100	
	07/10/2007	145.46	7.59	ND	137.87	<1.00	<3.00	<1.00	<6.00	8.12	<5.00	<100	<100	<100	
	01/07/2008	145.46	7.01	ND	138.45	<1.00	<3.00	<1.00	<6.00	4.22	<5.00	<100	<100	<100	
	06/19/2008	145.46	7.32	ND	138.14	<1.00	<3.00	<1.00	<4.00	5.01	<5.00	<100	<100	<100	
	01/14/2009	145.46	6.88	ND	138.58	<1.00	<3.00	<1.00	<6.00	13.5	<5.00	<100	<100	<100	
	06/19/2009	145.46	6.75	ND	138.71	<1.00	<3.00	<1.00	<6.00	8.09	<5.00	<100	<100	<100	
	12/22/2009	145.46	6.90	ND	138.56	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
	06/11/2010	145.46	7.61	ND	137.85	<1.00	<3.00	<1.00	<6.00	17.7	<5.00	<100	<100	<100	
	06/28/2011	145.46	6.93	ND	138.53	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	<25.0	<25.0	

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater												
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-K (GW-1,3) 3-16'	06/24/1999	145.14	8.03	ND	137.11	<1.0	<5.0	<5.0	<15	554	<5	<100	<100	<100
	08/20/1999	145.14	8.10	ND	137.04	<1.0	<5.0	<5.0	<15	662	<5.0	<100	<100	<100
	11/04/1999	145.14	6.81	ND	138.33	<1.0	<5.0	<5.0	<15	321	<5.0	<100	<100	<100
	01/03/2000	145.14	7.34	ND	137.80	<1.0	<5.0	<5.0	<15	340	<5.0	<100	<100	<100
	04/14/2000	145.14	6.91	ND	138.23	<1.0	<5.0	<5.0	<15	185	<5.0	<100	<100	<100
	08/21/2000	145.14	7.52	ND	137.62	<1.0	<5.0	<5.0	<15	165	<5.0	<100	<100	<100
	11/20/2000	145.14	6.91	ND	138.23	<5.0	<5.0	<5.0	<10	192	<5.0	<50	<50	<50
	05/20/2004	143.97	7.00	ND	136.97	<1.00	<3.0	<1.0	<6.0	388	<5.0	<100	<100	<100
	11/18/2004	143.97	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	591	<5.0	<100	<100	<100
	06/20/2005	143.97	6.79	ND	137.18	<1.00	<3.0	<1.0	<6.0	54.1	<5.0	<100	<100	<100
	6/20/2005 Dup	143.97	6.79	ND	137.18	<1.00	<3.0	<1.0	<6.0	68	<5.0	<100	<100	<100
	12/15/2005	143.97	5.08	ND	138.89	<1.00	<3.00	<1.00	<4.00	7.68	<5.00	<100	<100	<100
	12/15/2005	143.97	5.08	ND	138.89	<1.00	<3.0	<1.0	<4.0	10.1	<5.0	<100	<100	<100
	06/26/2006	143.97	5.01	ND	138.96	<1.00	<3.00	<1.00	<4.00	< 3.00	<5.00	<100	<100	<100
	6/26/2006 Dup	143.97	5.01	ND	138.96	<1.00	<3.00	<1.00	<4.00	< 3.00	<5.00	<100	<100	<100
	12/13/2006	143.97	6.65	ND	137.32	<1.00	<3.00	<1.00	<6.00	65.8	<5.00	<100	<100	<100
	12/13/2006	143.97	6.65	ND	137.32	<1.00	<3.00	<1.00	<6.00	65.3	<5.00	<100	<100	<100
	07/10/2007	143.97	7.31	ND	136.66	<1.00	<3.00	<1.00	<6.00	52.0	<5.00	<100	<100	<100
	7/10/2007 Dup	143.97	7.31	ND	136.66	<1.00	<3.00	<1.00	<6.00	46.9	<5.00	<100	<100	<100
	01/07/2008	143.97	6.65	ND	137.32	<1.00	<3.00	<1.00	<6.00	102	<5.00	<100	<100	<100
	1/7/2008 dup	143.97	6.65	ND	137.32	<1.00	<3.00	<1.00	<6.00	98.3	<5.00	<100	<100	<100
	06/19/2008	143.97	6.92	ND	137.05	<1.00	<3.00	<1.00	<4.00	47.7	<100	<100	<100	<100
	6/19/2008 Dup	143.97	6.92	ND	137.05	<1.00	<3.00	<1.00	<4.00	45.3	<100	<100	<100	<100
	01/14/2009	143.97	6.40	ND	137.57	<1.00	<3.00	<1.00	<6.00	18.6	<5.00	<100	<100	<100
	1/14/2009 dup	143.97	6.40	ND	137.57	<1.00	<3.00	<1.00	<6.00	18.9	<5.00	<100	<100	<100
	06/19/2009	143.97	5.92	ND	138.05	<1.00	<3.00	<1.00	<6.00	8.06	<5.00	<100	<100	<100
	6/19/2009 Dup	143.97	5.92	ND	138.05	<1.00	<3.00	<1.00	<6.00	5.68	<5.00	<100	<100	<100
	12/22/2009	143.97	6.37	ND	137.60	<1.00	<3.00	<1.00	<6.00	9.95	<5.00	<100	<100	<100
	12/22/2009 dup	143.97	6.37	ND	137.60	<1.00	<3.00	<1.00	<6.00	9.30	<5.00	<100	<100	<100
	06/11/2010	143.97	7.34	ND	136.63	<1.00	<3.00	<1.00	<6.00	18.9	<5.00	<100	<100	<100
	6/11/2010 Dup	143.97	7.34	ND	136.63	<1.00	<3.00	<1.00	<6.00	17.8	<5.00	<100	<100	<100
	06/28/2011	143.97	6.41	ND	137.56	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	<25.0	<25.0
OW-L (GW-1,3) 3-16'	06/24/1999	144.28	6.40	ND	137.88	<1.0	<5	<5	<15	11.8	<5	<100	<100	<100
	11/04/1999	144.28	5.45	ND	138.83	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	01/03/2000	144.28	5.90	ND	138.38	<1.0	<5.0	<5.0	<15	5.7	<5.0	<100	<100	<100
	02/25/2000	144.28	4.05	ND	140.23	<1.0	<1.0	<1.0	<3	<1.0	NS	NS	NS	NS
	11/18/2004	143.14	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	06/20/2005	143.14	5.25	ND	137.89	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	12/15/2005	143.14	3.44	ND	139.70	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	06/26/2006	143.14	4.03	ND	139.11	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	07/10/2007	143.14	5.78	ND	137.36	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	01/07/2008	143.14	5.81	ND	137.33	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/19/2008	143.14	5.47	ND	137.67	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	01/14/2009	143.14	4.91	ND	138.23	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/19/2009	143.14	4.14	ND	139.00	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
12/22/2009	143.14	4.97	ND	138.17	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
06/11/2010	143.14	5.90	ND	137.24	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
OW-M (GW-1,3) 3-16'	06/24/1999	144.00	7.26	ND	136.74	<1.0	<5	<5	<15	7.5	<5	<100	<100	<100
	10/13/1999	144.00	16.64	ND	127.36	<1.0	<5.0	<5.0	<15	376	<5.0	<100	<100	<100
	11/04/1999	144.00	6.11	ND	137.89	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	04/14/2000	144.00	6.04	ND	137.96	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	08/21/2000	144.00	6.14	ND	137.86	<1.0	<5.0	<5.0	<15	15.2	<5.0	<100	<100	<100
	11/20/2000	144.00	6.03	ND	137.97	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	02/26/2001	144.00	5.57	ND	138.43	<1.0	<5.0	<5.0	<15	972	<5.0	680	<100	<100
	07/16/2001	144.00	6.21	ND	137.79	<5.0	<5.0	<5.0	<5.0	13.3	<5.0	<50	<50	<50
	01/22/2002	144.00	6.81	ND	137.19	<5.0	<5.0	<5.0	<10	18.1	<5.0	<50	<50	<50
	05/07/2002	144.00	5.92	ND	138.08	<5.0	<5.0	<5.0	<10	15.1	<5.0	<50	<50	<50
	06/20/2005	142.81	5.93	ND	136.88	< 1.00	< 3.00	< 1.00	< 6.0	11.4	< 5.0	<100	<100	<100
	06/26/2006	142.81	4.25	ND	138.56	<1.00	13.1	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	07/10/2007	142.81	6.35	ND	136.46	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	01/07/2008	142.81	5.72	ND	137.09	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/19/2008	142.81	5.82	ND	136.99	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
01/14/2009	142.81	5.20	ND	137.61	<1.00	<3.00	<1.00	<6.00	3.87	<5.00	<100	<100	<100	
06/19/2009	142.81	4.70	ND	138.11	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
12/22/2009	142.81	5.26	ND	137.55	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	
06/10/2010	142.81	6.55	ND	136.26	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100	

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater												
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-N (GW-1,2,3) 12'-20'	08/20/1999	150.65	13.00	ND	137.65	4.3	<5.0	5.8	<15	475	<5.0	<100	<100	<100
	11/04/1999	150.65	12.03	ND	138.62	<1.0	<5.0	<5.0	<15	5.7	<5.0	<100	<100	<100
	11/22/1999	150.65	12.33	ND	138.32	<1.0	<5.0	<5.0	<15	36.6	<5.0	<100	<100	<100
	01/03/2000	150.65	12.40	ND	138.25	<1.0	<5.0	<5.0	<15	73	<5.0	<100	<100	<100
	04/14/2000	150.65	12.03	ND	138.62	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	08/21/2000	150.65	12.53	ND	138.12	<1.0	<5.0	<5.0	<15	6.4	<5.0	<100	<100	<100
	11/20/2000	150.65	12.03	ND	138.62	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	02/26/2001	150.65	12.02	ND	138.63	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	07/16/2001	150.65	13.10	ND	137.55	<5.0	<5.0	<5.0	<10	173	<5.0	<50	<50	<50
	09/07/2001	150.65	13.51	ND	137.14	<5.0	<5.0	<5.0	<10	1,270	<5.0	<50	<50	<50
	01/22/2002	150.65	12.76	ND	137.89	<5.0	<5.0	<5.0	<10	11.5	<5.0	<50	<50	<50
	05/07/2002	150.65	11.74	ND	138.91	<5.0	<5.0	<5.0	<10	281	<5.0	<50	<50	<50
	10/02/2002	149.45	13.08	ND	136.37	<2.0	<2.0	<2.0	<4.0	131	<3.0	<50	<50	<50
	05/10/2003	149.45	11.42	ND	138.03	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NS	NS	NS
	11/13/2003	149.45	12.26	ND	137.19	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NS	NS	NS
	05/20/2004	149.45	11.97	ND	137.48	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	06/02/2005	149.45	11.62	ND	137.83	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	12/15/2005	149.45	10.70	ND	138.75	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	06/26/2006	149.45	10.61	ND	138.84	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	07/10/2007	149.45	12.60	ND	136.85	<1.00	<3.00	<1.00	<6.00	3.02	<5.00	<100	<100	<100
	01/07/2007	149.45	11.73	ND	137.72	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/19/2008	149.45	12.20	ND	137.25	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	01/14/2009	149.45	11.61	ND	137.84	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/19/2009	149.45	11.50	ND	137.95	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	12/22/2009	149.45	11.65	ND	137.80	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/11/2010	149.45	12.41	ND	137.04	<1.00	<3.00	<1.00	<6.00	4.49	<5.00	<100	<100	<100
OW-O (GW-1,3) 12'-22'	08/20/1999	148.84	17.67	ND	131.17	<1.0	<5.0	<5.0	<15	273	<5.0	<100	<100	<100
	11/04/1999	148.84	16.02	ND	132.82	<1.0	<5.0	<5.0	<15	314	<5.0	<100	<100	<100
	01/03/2000	148.84	16.56	ND	132.28	<1.0	<5.0	<5.0	<15	284	<5.0	<100	<100	<100
	04/14/2000	148.84	15.29	ND	133.55	<1.0	<5.0	<5.0	<15	202	<5.0	<100	<100	<100
	08/21/2000	148.84	16.87	ND	131.97	<1.0	<5.0	<5.0	<15	249	<5.0	<100	<100	<100
	11/20/2000	148.84	16.01	ND	132.83	<5.0	<5.0	<5.0	<5.0	54.5	<5.0	<50	<50	<50
	02/26/2001	148.84	7.04	ND	141.80	<1.0	<5.0	<5.0	<15	13.9	<5.0	<100	<100	<100
	07/16/2001	148.84	17.33	ND	131.51	<5.0	<5.0	<5.0	<10	343	<5.0	<50	<50	<50
	09/07/2001	148.84	17.98	ND	130.86	<5.0	<5.0	<5.0	<10	464	<5.0	<50	<50	<50
	01/22/2002	148.84	17.38	ND	131.46	<5.0	<5.0	<5.0	<10	556	<5.0	<50	<50	<50
	05/07/2002	148.84	15.35	ND	133.49	<5.0	<5.0	<5.0	6	324	<5.0	<50	<50	<50
	10/02/2002	144.58	17.62	ND	126.96	<2.0	<2.0	<2.0	<4.0	399	<3.0	<50	<50	<50
	05/10/2003	144.58	15.41	ND	129.17	<1.0	<1.0	<1.0	<1.0	176	NS	NS	NS	NS
	05/20/2004	144.58	15.34	ND	129.24	<1.00	<3.0	<1.0	<6.0	232	<5.0	<100	<100	<100
	11/18/2004	144.58	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	211	8.6	<100	<100	<100
	06/20/2005	144.58	15.46	ND	129.12	<1.00	<3.0	<1.0	<6.0	150	<5.0	<100	<100	<100
	12/15/2005	144.58	12.22	ND	132.36	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	06/26/2006	144.58	12.63	ND	131.95	<1.00	<3.00	<1.00	<4.00	4.57	<5.00	<100	<100	<100
	12/13/2006	144.58	14.71	ND	129.87	<1.00	<3.00	<1.00	<6.00	45.1	<5.00	<100	<100	<100
	07/10/2007	144.58	16.36	ND	128.22	<1.00	<3.00	<1.00	<6.00	37.0	<5.00	<100	<100	<100
	01/07/2008	144.58	15.62	ND	128.96	<1.00	<3.00	<1.00	<6.00	34.6	<5.00	<100	<100	<100
	06/19/2008	144.58	15.18	ND	129.40	<1.00	<3.00	<1.00	<4.00	28.8	<5.00	<100	<100	<100
	01/14/2009	144.58	14.27	ND	130.31	<1.00	<3.00	<1.00	<6.00	4.20	<5.00	<100	<100	<100
	06/19/2009	144.58	15.72	ND	128.86	<1.00	<3.00	<1.00	<6.00	15.30	<5.00	<100	<100	<100
	12/22/2009	144.58	14.48	ND	130.10	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/11/2010	144.58	16.75	ND	127.83	<1.00	<3.00	<1.00	<6.00	7.56	<5.00	<100	<100	<100
06/28/2011	144.58	14.82	ND	129.76	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	<25.0	<25.0	

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater												
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-P (GW-1,3) 12'-22'	08/20/1999	148.60	15.70	ND	132.90	<1.0	<5.0	<5.0	<15	71.5	<5.0	<100	<100	<100
	10/13/1999	148.60	14.65	ND	133.95	<1.0	<5.0	<5.0	<15	82.7	<5.0	<100	<100	<100
	11/04/1999	148.60	14.09	ND	134.51	<1.0	<5.0	<5.0	<15	67.2	<5.0	<100	<100	<100
	01/03/2000	148.60	14.78	ND	133.82	<1.0	<5.0	<5.0	<15	66.1	<5.0	<100	<100	<100
	04/14/2000	148.60	13.24	ND	135.36	<1.0	<5.0	<5.0	<15	26.3	<5.0	<100	<100	<100
	11/20/2000	148.60	13.88	ND	134.72	<5.0	<5.0	<5.0	<10	5.5	<5.0	<50	<50	<50
	05/10/2003	144.36	13.08	ND	131.28	<2.0	<2.0	<2.0	<4.0	2.7	<3.0	<50	<50	<50
	05/20/2004	144.36	13.77	ND	130.59	<1.00	<3.0	<1.0	<6.0	9.1	<5.0	<100	<100	<100
	11/18/2004	144.36	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	06/20/2005	144.36	13.62	ND	130.74	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	12/15/2005	144.36	9.23	ND	135.13	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	06/26/2006	144.36	10.46	ND	133.90	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	07/10/2007	144.36	14.33	ND	130.03	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	01/07/2008	144.36	12.35	ND	132.01	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/19/2008	144.36	12.19	ND	132.17	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	01/14/2009	144.36	11.00	ND	133.36	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/19/2009	144.36	12.48	ND	131.88	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	12/22/2009	144.36	11.19	ND	133.17	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/11/2010	144.36	14.58	ND	129.78	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
OW-Q (GW-1,3) 2'-12'	11/22/1999	146.91	7.85	ND	139.06	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	01/03/2000	146.91	9.30	ND	137.61	<1.0	<5.0	<5.0	<15	6.1	<5.0	<100	<100	<100
	04/14/2000	146.91	7.51	ND	139.40	<1.0	<5.0	<5.0	<15	62.3	<5.0	<100	<100	<100
	08/21/2000	146.91	8.99	ND	137.92	<1.0	<5.0	<5.0	<15	11.7	<5.0	<100	<100	<100
	11/20/2000	146.91	8.20	ND	138.71	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	02/26/2001	146.91	6.38	ND	140.53	<1.0	<5.0	<5.0	<15	15.1	<5.0	<100	<100	<100
	07/16/2001	146.91	7.02	ND	139.89	<5.0	<5.0	<5.0	<10	6.2	<5.0	<50	<50	<50
	01/22/2002	146.91	9.23	ND	137.68	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	05/07/2002	146.91	7.55	ND	139.36	<5.0	<5.0	<5.0	<10	5.2	<5.0	<50	<50	<50
	06/20/2005	142.68	6.04	ND	136.64	< 1.00	< 3.0	< 1.0	< 6.0	< 3.0	<5.0	< 100	<100	< 100
	12/15/2005	142.68	3.73	ND	138.95	< 1.00	< 3.00	< 1.00	<4.00	< 3.00	<5.00	< 100	<100	< 100
	06/26/2006	142.68	5.09	ND	137.59	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/13/2006	142.68	5.67	ND	137.01	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	07/10/2007	142.68	6.18	ND	136.50	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	01/07/2008	142.68	5.83	ND	136.85	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/19/2008	142.68	5.80	ND	136.88	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	01/14/2009	142.68	5.55	ND	137.13	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/19/2009	142.68	5.01	ND	137.67	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	12/22/2009	142.68	5.53	ND	137.15	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/10/2010	142.68	8.88	ND	133.80	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
OW-R (GW-1,3) 8'-18'	11/22/1999	140.23	8.52	ND	131.71	<1.0	<5.0	<5.0	<15	11	<5.0	<100	<100	<100
	01/03/2000	140.23	8.97	ND	131.26	<1.0	<5.0	<5.0	<15	35.6	<5.0	<100	<100	<100
	04/14/2000	140.23	7.01	ND	133.22	<1.0	<5.0	<5.0	<15	32.9	<5.0	<100	<100	<100
	08/21/2000	140.23	8.92	ND	131.31	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	02/26/2001	140.23	9.59	ND	130.64	<1.0	<5.0	<5.0	<15	19.7	<5.0	<100	<100	<100
	07/16/2001	140.23	10.11	ND	130.12	<5.0	<5.0	<5.0	<5.0	9.1	<5.0	<50	<50	<50
	01/22/2002	140.23	9.62	ND	130.61	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	05/07/2002	140.23	6.94	ND	133.29	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	10/02/2002	135.93	9.24	ND	126.69	<2.0	<2.0	<2.0	<4.0	<2.0	<3.0	<50	<50	<50
	05/20/2004	135.93	7.32	ND	128.61	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	11/18/2004	135.93	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	06/20/2005	135.93	7.15	ND	128.78	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
	06/26/2006	135.93	5.13	ND	130.80	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/13/2006	135.93	6.38	ND	129.55	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	07/10/2007	135.93	8.21	ND	127.72	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/19/2008	135.93	5.94	ND	129.99	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	01/14/2009	135.93	6.20	ND	129.73	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/19/2009	135.93	7.28	ND	128.65	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	12/23/2009	135.93	7.00	ND	128.93	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/10/2010	135.93	9.26	ND	126.67	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 2 Concentrations of Volatile Petroleum Hydrocarbons (VPH) Detected in Groundwater												
Well No. (GW Class) Screen Interval (ft.)	Sampling Date	Top of Casing Elevation (ft.)	Depth to Water (ft.)	Depth to LNAPL (ft.)	Ground Water Elevation (ft.)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naph- thalene (µg/L)	C5-C8 Aliphatics (µg/L)	C9-C12 Aliphatics (µg/L)	C9-C10 Aromatics (µg/L)
MCP Method 1 Standards		GW-1				5	1,000	700	10,000	70	140	300	700	200
		GW-2				2,000	50,000	20,000	3,000	50,000	700	3,000	5,000	4,000
		GW-3				10,000	40,000	5,000	5,000	50,000	20,000	50,000	50,000	50,000
OW-S (GW-1,3) 12-22'	11/22/1999	140.29	15.04	ND	125.25	<5.0	<25	<25	<75	30	<25	<500	<500	<500
	01/03/2000	140.29	15.15	ND	125.14	<1.0	<5.0	<5.0	<15	10.9	<5.0	<100	<100	<100
	04/14/2000	140.29	14.23	ND	126.06	<1.0	<5.0	<5.0	<15	9.6	<5.0	<100	<100	<100
	08/21/2000	140.29	15.24	ND	125.05	<1.0	<5.0	<5.0	<15	5.7	<5.0	<100	<100	<100
	11/20/2000	140.29	8.45	ND	131.84	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	02/26/2001	140.29	15.43	ND	124.86	<1.0	<5.0	<5.0	<15	<5.0	<5.0	<100	<100	<100
	07/16/2001	140.29	15.75	ND	124.54	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	01/22/2002	140.29	15.69	ND	124.60	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	05/07/2002	140.29	14.56	ND	125.73	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<50	<50	<50
	10/02/2002	136.01	15.78	ND	120.23	<2.0	<2.0	<2.0	<4.0	<2.0	<3.0	<50	<50	<50
	05/10/2003	136.01	14.44	ND	121.57	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NS	NS	NS
	06/20/2005	136.01	NR	ND	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<100	<100	<100
	06/26/2006	136.01	12.02	ND	123.99	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	12/13/2006	136.01	13.89	ND	122.12	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	01/07/2008	136.01	14.77	ND	121.24	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/19/2008	136.01	14.45	ND	121.56	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	01/14/2009	136.01	13.57	ND	122.44	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/19/2009	136.01	14.56	ND	121.45	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	12/23/2009	136.01	14.00	ND	122.01	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/11/2010	136.01	14.95	ND	121.06	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/28/2011	136.01	14.34	ND	121.67	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<75.0	<25.0	<25.0
OW-T (GW-1,2,3) 9-19'	10/02/2002	142.90	14.96	ND	127.94	<2.0	<2.0	<2.0	<4.0	<2.0	<3.0	<50	<50	<50
	11/13/2003	142.90	14.52	ND	128.38	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NS	NS	NS
OW-U (GW-1,2,3) 13-23'	10/02/2002	142.30	19.46	ND	122.84	<2.0	<2.0	<2.0	<4.0	87.8	<3.0	<50	<50	<50
	11/18/2002	142.30	19.04	ND	123.86	<2.0	<2.0	<2.0	<4.0	77.2	<3.0	<50	<50	<50
	11/13/2003	142.30	18.98	ND	123.32	<1.0	<1.0	<1.0	<1.0	52.6	NT	NT	NT	NT
	05/20/2004	142.30	18.80	ND	123.50	<1.00	<3.0	<1.0	<6.0	19.9	<5.0	<100	<100	<100
	06/20/2005	142.30	17.64	ND	124.66	<1.00	<3.0	<1.0	<6.0	4.3	<5.0	<100	<100	<100
	06/26/2006	142.30	14.87	ND	127.43	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	07/10/2007	142.30	18.55	ND	123.75	<1.00	<3.00	<1.00	<6.00	8.78	<5.00	<100	<100	<100
	01/07/2008	142.30	18.65	ND	123.65	<1.00	<3.00	<1.00	<6.00	20.8	<5.00	<100	<100	<100
	06/19/2008	142.30	18.29	ND	124.01	<1.00	<3.00	<1.00	<4.00	<3.00	<5.00	<100	<100	<100
	01/14/2009	142.30	16.95	ND	125.35	<1.00	<3.00	<1.00	<6.00	<3.00	<5.00	<100	<100	<100
	06/19/2009	142.30	18.23	ND	124.07	<1.00	<3.00	<1.00	<6.00	6.88	<5.00	<100	<100	<100
	12/23/2009	142.30	17.50	ND	124.80	<1.00	<3.00	<1.00	<6.00	11.1	<5.00	<100	<100	<100
	06/10/2010	142.30	18.67	ND	123.63	<1.00	<3.00	<1.00	<6.00	4.61	<5.00	<100	<100	<100
OW-ER (GW-1,3) Total depth = 7.15'	05/20/1998	Unknown	NG	NG	NA	<1.0	<1.0	<1.0	<3	3	NA	NA	NA	NA
	07/30/1998	Unknown	6.44	ND	NA	<1.0	<1.0	<1.0	<3	2	NA	NA	NA	NA
	09/11/1998	Unknown	7.13	ND	NA	<1.0	<1.0	<1.0	<3	4	NA	NA	NA	NA
	10/26/1998	Unknown	6.43	ND	NA	<1.0	<1.0	<1.0	<3	6	NA	NA	NA	NA
	11/13/1998	Unknown	6.39	ND	NA	<1.0	<1.0	<1.0	<3	7	NA	NA	NA	NA
	12/17/1998	Unknown	6.67	ND	NA	<1.0	<1.0	<1.0	<3	2	NA	NA	NA	NA
01/06/1999	Unknown	6.13	ND	NA	<1.0	<1.0	<1.0	<3	3	NA	NA	NA	NA	
AS-3 (GW-1,3) 17.5-20'	10/02/2002	147.13	9.97	ND	137.16	<2.0	<2.0	<2.0	<4.0	3.3	<3.0	<50	<50	<50
AS-6 (GW-1,3) 16.5-19'	10/02/2002	147.65	9.50	ND	138.15	80.3	135	544	2,397	3,930	172	<500	1,120	4,220
AS-9 (GW-1,3) 17.5-20'	07/30/1998	147.34	4.31	ND	143.03	17	<1.0	8	<3	600	NA	NA	NA	NA
	10/26/1998	147.34	7.30	ND	140.04	13	<1.0	2	<3	400	NA	NA	NA	NA
	11/13/1998	147.34	7.30	ND	140.04	8	<1.0	2	<3	210	NA	NA	NA	NA
	12/17/1998	147.34	7.60	ND	139.74	<20	<1.0	<1.0	<3	300	NA	NA	NA	NA
	01/06/1999	147.34	6.97	ND	140.37	<20	<1.0	<1.0	<3	570	NA	NA	NA	NA
	02/09/1999	147.34	6.65	ND	140.69	19	<1.0	48	<3	380	NA	NA	NA	NA
AS-10 (GW-1,3) 18.5-20'	10/02/2002	144.11	6.84	ND	137.27	<2.0	<2.0	<2.0	<4.0	7.1	<3.0	1,120	<50	<50
RW-2	06/02/2005	144.47	NG	NG	NA	<1.00	<3.0	10.6	16.8	63.7	5.6	<100	<100	154
RW-3A	06/02/2005	Unknown	NG	NG	NA	<1.00	<3.0	<1.0	<6.0	<3.0	<5.0	<100	<100	<100
RW-4	11/18/2004	Unknown	NG	NG	NA	<1.00	<3.0	1.7	4.5	22.9	<5.0	<100	<100	<100
RW-6	06/02/2005	Unknown	NG	NG	NA	2.8	7.1	47.6	83.9	300	13.5	238	<100	528
Notes: µg/L = micrograms per liter NG = not gauged < = values less than laboratory detection limits Bold values indicate that the analyte was detected at a concentration above Method 1 GW-1 standards. Italicized values indicate that the analyte was detected at a concentration above Method 1 GW-2 standards. Underlined values indicate that the analyte was detected at a concentration above Method 1 GW-3 standards. Comprehensive site survey including top of PVC well casing elevations was conducted in October 2002 by Hancock Survey Associates, Inc.														QA/QC INFO: LAST UPDATED BY: PDC DATE: 7/29/2022 LAST CHECKED BY: DWF DATE: 08/22/2022

95-214880 Global Companies, LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 3 Geochemical and Monitored Natural Attenuation Data											
Well ID	Date	Field Temperature (°C)	Field Conductivity (µS/cm)	Field DO (mg/L)	Field pH (S.U.)	ORP (mV)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (µg/L)	Nitrate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)
MW-1	03/10/2003	8.1	872	0.15	6.25	179	NM	NM	NM	NM	NM	NM	NM
	05/03/2004	10.6	1,684	4.71	7.83	169.8	NM	NM	NM	NM	NM	NM	NM
	06/17/2004	14.4	1,563	2.24	5.86	174.3	0.0	14	NM	NM	NM	0.6	30
	06/28/2011	18.2	3,370	11.79	5.20	77.4	8.1	33	NM	NM	NM	<0.100	49
	03/26/2014	6.4	4,361	0.85	6.00	-39.9	NM	21	97.6	13.9	422	<0.100	NM
	06/30/2014	16.8	5.35	0.21	6.23	-43.7	NM	26	87	13	2400	<0.050	NM
	09/11/2014	19.3	4,709	0.69	6.02	-8.6	NM	30	52	7.7	2000	<0.050	NM
	12/08/2014	10.2	4,940	2.88	6.11	5.2	NM	25	100	18	820	<0.050	NM
	09/17/2015	22.0	5,060	0.01	6.13	-6.5	NM	23	55	6.9	2800	<0.050	NM
	12/16/2015	13.5	5,581	0.17	6.07	205.6	NM	25	77	12	1400	<0.050	NM
	03/08/2016	10.0	4,326	0.14	5.75	28.4	NM	20	46	6.8	670	<0.050	NM
	06/07/2016	12.4	2,956	1.95	6.08	-69.4	NM	22	64	10	3300	<0.050	NM
	09/26/2016	18.6	4,072	0.26	6.23	104.0	NM	25	48	7.4	1700	0.075	NM
	12/20/2016	13.2	3,470	0.16	6.23	-57.5	NM	26	48	6.8	1000	<0.050	NM
	03/28/2017	8.7	3816	0.14	6.19	30.30	NM	NM	NM	NM	NM	NM	NM
	06/28/2017	15.1	5,959	0.17	5.93	-83.7	NM	20	98	11	3.9	<0.050	NM
	09/19/2017	18.5	5,294	0.86	6.51	-51.9	NM	28	57	6.1	4.6	0.15	NM
	03/19/2018	8.6	4,464	0.58	6.23	-82.0	NM	18	73	7.5	2	0.070	NM
	06/06/2018	14.2	4,932	0.32	4.31	-35.2	NM	NM	NM	NM	NM	NM	NM
	12/03/2018	13.7	4,438	0.17	6.10	-27.1	NM	12	56	6.5	3.1	0.061	NM
	03/25/2019	8.7	4,750	0.22	6.26	-102.7	NM	20	48	5.2	1,300	0.34	NM
	06/24/2019	16.4	4,530	4.23	6.33	-11.0	NM	21	59	6.7	440	<0.10	NM
	10/17/2019	16.2	4,408	0.33	6.12	-120.1	NM	30	49	5.3	430	<0.10	NM
	12/18/2019	9.9	7,541	0.85	5.47	-10.9	NM	27	46	5.2	75	0.32	NM
	05/11/2020	12.4	3,441	0.63	6.27	-26.1	NM	38	62	5.9	240	<0.05	NM
	09/24/2020	17.5	1,358	4.22	6.21	-202.4	NM	58	36	4.7	54	0.33	NM
	12/21/2020	12.1	2,380	0.36	6.17	135.3	NM	48	0.86	2.8	<7.0	2.50	NM
	03/22/2021	10.5	3,213	0.55	6.39	-365.1	NM	86	<0.050	2.2	<7.0	3.6	NM
	06/16/2021	16.0	4,880	0.25	6.01	17.6	NM	75	6.3	6.9	45	0.35	NM
	09/17/2021	19.3	4,427	0.24	6.10	22.8	NM	71	18	6.1	190	<0.10	NM
	12/17/2021	14.2	3,431	0.23	6.59	10.2	NM	46	4.1	4.6	230	<0.10	NM
	03/16/2022	9.1	3,230	0.47	6.35	13.2	NM	75	11	3.2	170	<0.10	NM
	07/11/2022	19.0	4,080	0.33	6.28	-11.4	NM	38	54	7.7	340	0.40	NM
MW-2	03/10/2003	5.7	2,115	2.20	6.40	14.9	NM	NM	NM	NM	NM	NM	NM
	05/03/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/17/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/17/2007	18.8	1,372	0.46	6.79	-14.3	NM	NM	NM	NM	NM	NM	NM
	03/21/2008	8.0	4,522	1.34	7.20	-281.2	NM	NM	NM	NM	NM	NM	NM
	09/25/2008	19.5	2,701	0.11	6.30	-168.5	NM	NM	NM	NM	NM	NM	NM
	03/10/2009	8.1	2,770	0.61	6.44	-57.2	2.0	NM	NM	NM	NM	NM	NM
	09/17/2009	18.6	550	0.47	5.91	-162.9	NM	NM	NM	NM	NM	NM	NM
	04/21/2010	12.8	2,120	0.28	6.23	-171.2	NM	NM	NM	NM	NM	NM	NM
	09/30/2010	19.8	575	1.10	6.16	0.30	NM	2.28	NM	NM	NM	<0.100	93.3
	12/29/2010	9.2	5,513	2.41	6.07	28.30	0.6	46.2	NM	NM	NM	<0.100	47.1
	06/28/2011	17.4	19	0.13	6.08	-61.00	3.9	<10.0	NM	NM	NM	<0.100	79.6
	09/28/2011	20.8	1664	2.00	6.09	-58.30	2.2	1.99	3.24	0.259	112	<0.100	NM
	12/22/2011	12.2	1764	0.17	6.38	-21.60	NM	15.2	2.27	0.308	14	<0.100	NM
	03/08/2012	9.9	1744	0.60	6.47	-261.40	NM	20.6	0.464	0.289	7	0.57	NM
	06/20/2012	17.2	1264	0.44	6.89	-52.10	NM	16.6	1.58	0.18	24.8	0.14	NM
	09/10/2012	20.8	1395	0.11	6.13	-235.60	NM	<10.0	2.08	0.225	117	<0.100	NM
	12/12/2012	12.0	1892	0.23	6.77	-24.10	NM	32	0.878	0.404	<2.20	<0.100	NM
	03/27/2013	9.3	6814	0.15	6.45	88.20	NM	29.3	2.66	0.137	27	0.46	NM
	06/19/2013	17.0	1769	0.24	6.37	-130.70	NM	4.84	2.95	0.168	516	<0.100	NM
	12/16/2013	9.1	2310	0.47	6.39	113.70	NM	NM	NM	NM	NM	NM	NM
	03/26/2014	4.6	19	0.69	6.59	-127.30	NM	70.5	2.35	0.271	455	<0.100	NM
MW-2R	06/30/2014	15.4	2	0.17	5.84	47	NM	36	0.1	<0.010	<2.6	2	NM
	09/11/2014	18.37	2213	0.81	5.46	140.30	NM	NM	NM	NM	NM	NM	NM
	03/31/2015	8.5	2323	1.86	5.91	139.80	NM	28	<0.05	0.3	4	4	NM
	12/16/2015	13.2	2613	0.32	5.68	206.90	NM	NM	NM	NM	NM	NM	NM
	03/08/2016	9.8	2,782	1.45	5.33	167.60	NM	NM	NM	NM	NM	NM	NM
	09/26/2016	18.4	2,439	0.36	5.75	100.30	NM	NM	NM	NM	NM	NM	NM
	12/20/2016	12.8	2,452	0.27	5.95	72.70	NM	NM	NM	NM	NM	NM	NM
	03/28/2017	8.9	2,539	2.21	5.88	72.80	NM	33	0.069	0.23	<2.20	5.4	NM
	09/19/2017	17.9	2,413	0.71	6.14	93.10	NM	NM	NM	NM	NM	NM	NM
	12/27/2017	11.8	3,033	0.24	5.69	50.90	NM	40	<0.050	2	<0.0070	1	NM
	03/19/2018	8.5	2,375	1.66	5.89	24.80	NM	NM	NM	NM	NM	NM	NM
	06/06/2018	12.3	1,387	2.50	4.05	98.90	NM	42	0.082	0.015	<0.7	6	NM
	12/03/2018	13.4	1,690	0.30	5.86	-56.00	NM	NM	NM	NM	NM	NM	NM

95-214880 Global Companies, LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 3 Geochemical and Monitored Natural Attenuation Data											
Well ID	Date	Field Temperature (°C)	Field Conductivity (µS/cm)	Field DO (mg/L)	Field pH (S.U.)	ORP (mV)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (µg/L)	Nitrate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)
MW-2D	03/10/2003	8.4	439	0.73	6.86	78	NM	NM	NM	NM	NM	NM	NM
	05/03/2004	11.9	589	2.46	7.87	170.5	NM	NM	NM	NM	NM	NM	NM
	06/17/2004	13.5	536	0.12	6.50	110.7	0.0	ND	NM	NM	NM	2.0	85
MW-3	12/16/2015	13.3	1094	0.88	5.98	157.8	NM	NM	NM	NM	NM	NM	NM
	03/08/2016	12.0	1,122	0.29	5.73	58.1	NM	NM	NM	NM	NM	NM	NM
	09/26/2016	18.2	1,081	0.30	5.99	143.7	NM	NM	NM	NM	NM	NM	NM
	12/20/2016	14.4	1,254	0.97	6.21	67.3	NM	NM	NM	NM	NM	NM	NM
	03/28/2017	11.2	923	0.08	6.41	-35.3	NM	NM	NM	NM	NM	NM	NM
	09/19/2017	17.2	1,111	0.67	6.34	-32.5	NM	NM	NM	NM	NM	NM	NM
	12/27/2017	12.8	6,627	0.24	5.99	22.2	NM	NM	NM	NM	NM	NM	NM
	03/19/2018	10.3	2,103	0.45	6.22	-76.1	NM	NM	NM	NM	NM	NM	NM
	06/06/2018	14.7	1,245	0.08	4.65	-74.0	NM	NM	NM	NM	NM	NM	NM
	12/03/2018	14.2	1,333	0.38	6.05	-113.7	NM	NM	NM	NM	NM	NM	NM
	03/25/2019	10.8	1,280	0.35	6.19	-47.6	NM	43	0.056	0.15	0.71	0.4	NM
	06/24/2019	16.0	1,270	0.37	5.94	40.8	NM	37	2.0	0.15	64	0.2	NM
	10/17/2019	15.2	1,268	0.32	5.80	-71.5	NM	52	4.2	0.33	120	<0.10	NM
	12/18/2019	11.8	1,551	0.85	5.75	-11.4	NM	30	11.0	0.27	93	0.22	NM
	05/11/2020	14.4	983	0.46	6.13	1.9	NM	35	1.9	0.13	380	<0.05	NM
	09/24/2020	17.7	1,345	3.75	6.09	-341.7	NM	36	2.7	0.22	260	0.34	NM
	12/21/2020	12.9	1,540	0.51	6.22	-1.2	NM	32	0.53	0.40	340	0.35	NM
	03/22/2021	12.1	1,244	1.11	6.34	-400.6	NM	32	0.28	0.21	100	0.26	NM
	06/16/2021	15.3	1,060	0.30	5.94	39.1	NM	29	0.44	0.14	850	0.37	NM
	09/17/2021	17.0	1,243	0.18	6.05	-4.9	NM	34	0.15	0.13	190	<0.10	NM
	12/17/2021	14.3	1,119	0.30	6.64	5.1	NM	34	1.30	0.12	470	<0.10	NM
	03/16/2022	10.7	1,180	0.38	6.32	9.6	NM	34	0.37	0.12	61	0.23	NM
	07/11/2022	14.3	1,190	0.09	6.48	-123.8	NM	20	4.2	0.11	1,600	<0.10	NM
MW-4	09/28/2011	18.4	1302	1.66	6.08	157.1	1.6	19	3.48	0.603	13	0.16	NM
	12/22/2011	13.9	606	1.91	6.10	126.2	NM	23.7	<0.03	0.258	<2.20	2.04	NM
	03/08/2012	11.3	2551	0.37	5.97	-42.7	NM	21.5	0.326	0.256	<2.20	0.46	NM
	06/20/2012	16.3	1760	0.58	7.57	52.4	NM	23.8	0.774	0.668	<2.20	0.74	NM
	03/27/2013	9.9	2418	1.79	6.15	367.2	NM	46.1	0.474	0.647	<2.20	<10.0	NM
	12/16/2013	10.4	1110	0.54	6.32	54.9	NM	NM	NM	NM	NM	NM	NM
	12/16/2015	13.3	2394	0.21	6.19	189.2	NM	NM	NM	NM	NM	NM	NM
	03/08/2016	10.6	1,643	0.16	5.99	21.8	NM	NM	NM	NM	NM	NM	NM
	09/26/2016	19.6	2,252	0.22	6.45	109.4	NM	NM	NM	NM	NM	NM	NM
	12/20/2016	12.9	4,723	0.15	6.40	10.9	NM	NM	NM	NM	NM	NM	NM
	03/28/2017	7.7	259	5.54	6.77	-16.3	NM	NM	NM	NM	NM	NM	NM
	12/27/2017	12.5	3,639	0.21	6.64	-29.5	NM	NM	NM	NM	NM	NM	NM
	03/19/2018	8.6	5,655	1.11	6.15	-65.6	NM	NM	NM	NM	NM	NM	NM
	06/06/2018	13.1	3,914	0.01	4.65	-74.0	NM	NM	NM	NM	NM	NM	NM
	12/03/2018	13.7	3,836	2.79	6.39	-171.8	NM	NM	NM	NM	NM	NM	NM
MW-5D	03/10/2003	9.7	584	1.53	6.30	902	NM	NM	NM	NM	NM	NM	NM
	05/03/2004	12.5	949	9.10	7.90	176.2	NM	NM	NM	NM	NM	NM	NM
	06/17/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-5DD	03/10/2003	9.9	161	0.64	7.20	882	NM	NM	NM	NM	NM	NM	NM
	05/03/2004	11.7	286	5.08	7.92	173.6	NM	NM	NM	NM	NM	NM	NM
	06/17/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
OW-5	10/17/2007	15.7	2,039	0.43	7.06	-43.9	NM	NM	NM	NM	NM	NM	NM
	01/07/2008	11.4	826	0.58	6.57	-57.5	1.4	11	NM	NM	NM	12	NM
	03/21/2008	6.8	678	0.22	7.28	-332.5	NM	NM	NM	NM	NM	NM	NM
	09/25/2008	15.6	2,344	0.22	6.29	-89.9	NM	NM	NM	NM	NM	NM	NM
	03/10/2009	7.7	444	0.79	7.06	53.4	0.0	NM	NM	NM	NM	NM	NM
	09/17/2009	14.3	1,573	0.77	6.59	43.6	NM	NM	NM	NM	NM	NM	NM
	04/21/2010	12.4	623	0.71	6.87	2.1	NM	NM	NM	NM	NM	NM	NM
OW-6	10/17/2007	13.3	1,144	0.36	6.40	16.7	NM	NM	NM	NM	NM	NM	NM
	03/21/2008	6.1	889	1.43	5.98	-266.8	NM	NM	NM	NM	NM	NM	NM
	09/25/2008	14.4	1,384	0.19	6.22	-94.9	NM	NM	NM	NM	NM	NM	NM
	03/10/2009	8.2	584	0.76	6.00	105.4	2.0	NM	NM	NM	NM	NM	NM
	09/17/2009	13.8	1,143	0.42	5.93	108.5	NM	NM	NM	NM	NM	NM	NM
	04/21/2010	13.1	631	1.04	5.84	183.9	NM	NM	NM	NM	NM	NM	NM

95-214880 Global Companies, LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 3 Geochemical and Monitored Natural Attenuation Data											
Well ID	Date	Field Temperature (°C)	Field Conductivity (µS/cm)	Field DO (mg/L)	Field pH (S.U.)	ORP (mV)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (µg/L)	Nitrate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)
OW-10	10/17/2007	14.6	1,229	0.49	7.04	-34.6	NM	NM	NM	NM	NM	NM	NM
	03/21/2008	6.8	680	2.90	7.14	-214.8	NM	NM	NM	NM	NM	NM	NM
	09/25/2008	14.9	1,588	0.18	6.12	-82.1	NM	NM	NM	NM	NM	NM	NM
	03/10/2009	9.3	423	2.37	7.02	88	0.0	NM	NM	NM	NM	NM	NM
	09/17/2009	13.4	798	4.42	6.66	74.4	NM	NM	NM	NM	NM	NM	NM
	04/21/2010	12.3	536	1.55	6.91	62.8	NM	NM	NM	NM	NM	NM	NM
	03/08/2012	12.0	734	3.27	6.88	-40.7	NM	14.2	<0.03	0.167	<2.20	0.7	NM
	06/20/2012	14.1	1196	0.60	7.44	5.2	NM	20.1	0.0796	0.667	19.8	0.11	NM
	09/10/2012	16.4	1143	0.21	6.76	-236.8	NM	<5.0	9.18	1.23	105	<0.100	NM
	12/12/2012	12.2	1339	2.26	6.72	45.8	NM	30.3	0.936	0.344	<2.20	<0.100	NM
	06/19/2013	13.4	823	0.45	6.98	271.0	NM	13.8	<0.03	0.0607	<2.20	0.12	NM
	12/16/2013	8.6	1600	2.50	6.08	134.0	NM	28.7	0.0515	0.0647	<2.20	<0.100	NM
	03/31/2015	8.1	547	4.65	7.23	154.3	NM	14	<0.05	<0.01	<2.6	0.07	NM
OW-12	09/30/2010	18.6	1,211	1.10	6.36	-25.7	NM	NM	NM	NM	NM	NM	NM
	12/29/2010	12.0	504	8.55	6.17	119.3	NM	NM	NM	NM	NM	NM	NM
	06/28/2011	18.8	2,006	9.29	5.84	61.4	2.6	12.0	NM	NM	NM	0.1	112
	09/28/2011	20.2	1,909	1.59	5.83	155.7	2	9.87	3.52	0.652	29	0.52	NM
	12/22/2011	13.7	1,595	0.46	6.13	10.2	NM	16.6	3.09	0.634	<2.2	0.15	NM
	03/08/2012	11.4	992	0.92	6.41	-164.3	NM	5.36	1.2	0.234	9	0.21	NM
	06/20/2012	17.2	1,353	0.57	7.89	-54.2	NM	3.53	5.01	0.708	40.3	<100	NM
	09/10/2012	18.4	722	0.27	6.28	-225.5	NM	25.3	<0.03	0.317	<2.20	2.75	NM
	12/12/2012	13.6	1,143	0.74	6.73	-225.5	NM	13.6	1.5	0.368	4.7	<0.100	NM
	03/27/2013	10.9	1,307	0.58	6.40	300.6	NM	25	2.25	0.578	<2.2	1.53	NM
	12/16/2013	10.8	1,360	0.52	6.19	85.9	NM	NM	NM	NM	NM	NM	NM
	06/30/2014	18.8	1,575	0.72	5.90	16.6	NM	21	4.5	1.8	<2.6	<0.050	NM
	09/11/2014	18.8	1,575	0.72	5.90	16.6	NM	NM	NM	NM	NM	NM	NM
	12/08/2014	8.8	1,592	1.77	6.47	0	NM	26	0.8	0.63	89	0.66	NM
	09/17/2015	22.0	1,765	0.01	6.18	43.7	NM	30	1.9	0.92	73	0.32	NM
	12/16/2015	13.4	1,965	0.72	6.29	204.9	NM	28	0.25	0.36	<2.6	0.92	NM
	03/08/2016	11.2	3,096	0.37	6.07	40.1	NM	25	0.47	0.68	130	1	NM
	06/07/2016	12.3	1,494	1.47	6.46	-32.4	NM	21	0.89	0.54	110	0.22	NM
	09/26/2016	20.0	1,969	0.43	6.30	112.2	NM	51	2	0.53	84	0.3	NM
	12/20/2016	13.9	1,218	0.52	6.16	-59.2	NM	29	<0.050	0.55	<0.0026	3	NM
	03/28/2017	10.2	4,557	1.62	6.67	77.2	NM	49	<0.050	0.061	<2.20	2.6	NM
	06/28/2017	16.4	3,875	0.52	6.24	-63.9	NM	37	0.65	0.55	0.11	0.37	NM
	09/19/2017	18.5	2,223	0.75	6.65	-28.2	NM	15	0.82	0.64	0.019	0.071	NM
	12/27/2017	13.0	1,993	0.6	6.23	71.7	NM	27	0.28	0.6	0.048	0.22	NM
	03/19/2018	9.9	4,158	0.74	6.33	82.8	NM	38	1.3	1.6	0.12	1.4	NM
	06/06/2018	13.8	3,644	0.39	6.20	-20.7	NM	25	1.4	0.47	0.21	0.1	NM
	12/03/2018	14.6	4,247	0.76	6.24	-66.1	NM	45	0.45	0.51	0.14	1.5	NM
OW-13	10/17/2007	17.8	935	0.52	6.63	57.1	NM	NM	NM	NM	NM	NM	NM
	03/21/2008	9.4	1,494	0.14	7.13	-294.2	NM	NM	NM	NM	NM	NM	NM
	09/25/2008	18.6	1,583	0.21	6.26	-109.4	NM	NM	NM	NM	NM	NM	NM
	03/10/2009	9.4	3,769	0.43	6.22	-18.3	4.0	NM	NM	NM	NM	NM	NM
	09/17/2009	17.4	1,063	0.45	5.89	55.7	NM	NM	NM	NM	NM	NM	NM
	04/21/2010	14.4	537	0.42	6.14	-110.2	NM	NM	NM	NM	NM	NM	NM
	09/30/2010	18.7	935	1.34	6.03	75.1	NM	23.2	NM	NM	NM	0.970	69.1
	12/29/2010	11.6	882	3.18	6.11	66.5	1.1	19.4	NM	NM	NM	0.500	103
	09/28/2011	20.1	988	1.27	5.98	158.4	2.2	6.99	2.76	0.518	81	0.440	NM
	12/22/2011	13.3	903	1.21	6.07	92.2	NM	19.6	0.171	0.777	0.777	0.780	NM
	03/08/2012	11.7	4135	0.20	6.23	-264.2	NM	25	5.78	0.468	102	<0.100	NM
	06/20/2012	17.0	1681	0.78	7.40	-10.9	NM	13.6	9.42	1.34	73	0.240	NM
	09/10/2012	19.9	1048	0.36	6.07	-221.3	NM	15.8	2.04	0.486	21.7	0.640	NM
	12/12/2012	13.5	1195	0.56	6.51	-27.9	NM	28.1	4.78	0.62	43.9	0.230	NM
	03/27/2013	11.4	3392	0.29	6.35	116.2	NM	16.6	22.7	2.46	82.2	0.490	NM
	06/19/2013	16.2	745	0.23	6.39	-98.2	NM	30.3	4.71	0.305	48	0.120	NM
	12/16/2013	11.0	1206	0.31	6.85	-30.1	NM	1.26	12.3	0.233	19.6	<0.100	NM
	09/11/2014	19.1	1296	1.00	5.57	77.9	NM	27	4.2	0.84	240	0.051	NM
	12/08/2014	10.0	1457	2.63	6.21	23.4	NM	19	4.6	0.76	520	<0.05	NM
	03/31/2015	9.8	1197	0.68	6.33	3.0	NM	<2.0	13	1.5	960	<0.05	NM
	09/17/2015	21.0	1545	0.01	5.92	75.2	NM	26	2.4	1	320	0.260	NM
	12/16/2015	13.4	1586	0.24	5.98	203.8	NM	24	3.1	0.84	520	0.074	NM
	03/08/2016	11.7	1,290	0.17	5.76	98.1	NM	21	2.9	0.67	830	<0.050	NM
	06/07/2016	13.5	0.763	2.26	5.99	-45.0	NM	15	4.4	0.94	1300	0.190	NM

95-214880 Global Companies, LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 3 Geochemical and Monitored Natural Attenuation Data											
Well ID	Date	Field Temperature (°C)	Field Conductivity (µS/cm)	Field DO (mg/L)	Field pH (S.U.)	ORP (mV)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (µg/L)	Nitrate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)
OW-13 (cont.)	09/26/2016	20.0	1,596	0.29	6.04	131.0	NM	23	2.3	1.1	2300	0.280	NM
	12/20/2016	13.8	3,116	0.20	6.24	-67.5	NM	11	7	1.1	1300	0.054	NM
	03/28/2017	10.2	5,195	0.05	6.47	-59.4	NM	19	6.7	1.3	<2.20	0.12	NM
	06/28/2017	17.3	1,269	0.12	5.74	-65.6	NM	6.4	6.9	1.6	1.3	0.16	NM
	09/19/2017	18.7	1,761	0.66	6.41	-104.4	NM	26	9.4	1.4	0.41	0.18	NM
	12/27/2017	12.8	26,580	0.18	6.07	-0.8	NM	57	6.3	1.1	0.88	<0.050	NM
	03/19/2018	10.2	22,236	0.47	6.01	-95.7	NM	28	4.8	0.28	0.16	0.076	NM
	06/06/2018	15.1	418.8	0.03	5.04	-24.4	NM	3.9	4.7	0.75	0.58	<0.050	NM
	12/03/2018	14.6	323.0	0.33	6.05	-99.7	NM	2.2	0.86	0.17	0.29	0.4	NM
	03/25/2019	10.3	690.0	0.26	6.60	-107.2	NM	2.0	2.7	0.26	94	<0.10	NM
	06/24/2019	16.5	155.0	0.36	5.43	53.6	NM	<2.0	1.7	0.14	390	<0.10	NM
	10/17/2019	16.4	1,091	0.28	5.98	-114.1	NM	37	7	0.22	540	<0.10	NM
	12/18/2019	9.5	1,736	0.88	5.42	-92.0	NM	31	17	0.48	720	0.24	NM
	05/11/2020	15.3	1,076	0.58	6.26	-72.6	NM	35	7.1	0.53	650	<0.05	NM
	09/24/2020	17.6	1,339	3.66	6.05	-377.5	NM	34	2.9	0.48	160	0.27	NM
	12/21/2020	12.4	1,550	0.29	6.17	41.1	NM	24	5.4	0.86	580	0.35	NM
	03/22/2021	13.9	3,488	0.41	6.50	-419.4	NM	12	8.1	1.5	1,500	0.28	NM
	06/16/2021	17.1	1,400	0.33	5.94	30.7	NM	19	2.0	0.48	390	<0.10	NM
	09/17/2021	18.3	1,275	0.25	6.08	-14.2	NM	28.0	1.8	0.49	610	0.28	NM
	12/17/2021	14.0	1,096	0.43	6.65	-11.7	NM	27	0.69	0.32	690	0.22	NM
	03/16/2022	11.8	1,480	0.33	6.24	23.7	NM	31	4.9	1.1	290	0.73	NM
	07/11/2022	20.4	1,700	0.29	6.42	-42.2	NM	20	2.8	0.47	230	<0.10	NM
OW-14	10/17/2007	16.6	1,279	0.98	5.92	34.9	NM	NM	NM	NM	NM	NM	NM
	03/21/2008	7.7	470	4.10	6.60	-206.7	NM	NM	NM	NM	NM	NM	NM
	09/25/2008	17.4	1,721	0.30	6.10	-80.0	NM	NM	NM	NM	NM	NM	NM
	03/10/2009	10.4	533	2.90	6.20	163.5	0.0	NM	NM	NM	NM	NM	NM
	09/17/2009	16.4	1,283	0.68	6.07	912	NM	NM	NM	NM	NM	NM	NM
	04/21/2010	13.7	1,164	5.54	5.77	210.1	NM	NM	NM	NM	NM	NM	NM
OW-B	03/10/2003	4.0	857	0.32	7.35	198	NM	NM	NM	NM	NM	NM	NM
	05/03/2004	10.0	1,415	2.09	7.92	163.5	NM	NM	NM	NM	NM	NM	NM
	06/17/2004	11.5	700	0.15	6.33	-63.9	4.65	ND	NM	NM	NM	ND	155
	10/17/2007	10.6	1,327	0.43	6.58	-19.6	NM	NM	NM	NM	NM	NM	NM
	03/21/2008	6.3	563	1.13	6.76	-274.8	NM	NM	NM	NM	NM	NM	NM
	09/25/2008	15.1	1,870	0.15	6.13	-88.4	NM	NM	NM	NM	NM	NM	NM
	03/10/2009	8.9	900	0.25	6.33	21.8	3.6	NM	NM	NM	NM	NM	NM
	09/17/2009	13.8	1,224	3.20	6.31	-32.7	NM	NM	NM	NM	NM	NM	NM
	04/21/2010	12.5	827	0.50	6.27	-6.5	NM	NM	NM	NM	NM	NM	NM
	12/29/2010	NM	NM	2.41	6.07	28.3	NM	NM	NM	NM	NM	NM	NM
	06/29/2011	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/26/2014	5.6	1642	0.46	6.31	-13.6	NM	8.09	4.17	0.549	268	<0.100	NM
	09/11/2014	16.1	1999	0.75	6.01	31.50	NM	5	6.5	0.92	760	<0.050	NM
OW-BD	03/10/2003	8.0	727	0.21	6.64	64.9	NM	NM	NM	NM	NM	NM	NM
	05/04/2004	10.8	1,603	0.79	8.00	164.4	NM	NM	NM	NM	NM	NM	NM
	06/17/2004	11.4	971	0.12	6.11	-62.7	4.8	ND	NM	NM	NM	ND	125
	01/04/2005	13.8	1,688	0.86	6.43	-74.3	5.0	6.0	NM	NM	NM	0.8	NM
OW-ED	09/28/2011	16.4	905	1.46	6.33	266.7	0	46.3	0.0375	0.0666	<2.20	<0.100	NM
	12/22/2011	12.9	938	2.72	7.26	0.6	NM	47.4	<0.03	0.0113	<2.20	<0.100	NM
	09/10/2012	15.9	1,252	0.17	6.42	-237.9	NM	<10.0	2.96	0.35	86.2	<0.100	NM
	12/12/2012	12.9	955	5.84	7.53	9.6	NM	49.7	<0.03	<0.004	<2.20	<0.100	NM
	03/27/2013	12.3	994	3.75	7.68	5358.0	NM	46.9	<0.03	<0.004	<2.20	0.12	NM
	12/16/2013	9.9	980	5.88	7.70	110.5	NM	39.8	<0.03	<0.004	<2.20	<0.100	NM
	09/17/2015	15.3	914	0.17	7.37	24.4	NM	35	0.16	0.23	4.9	<0.050	NM
	12/16/2015	12.6	951	1.96	7.35	184.8	NM	37	0.34	0.37	<2.6	<0.050	NM
	03/08/2016	12.2	967	3.90	7.37	36.1	NM	31	<0.050	<0.010	<2.6	5.8	NM
	06/07/2016	9.8	1	2.05	7.01	65.3	NM	34	<0.050	0.012	<2.6	<0.050	NM
	09/26/2016	14.5	922	0.98	7.42	65.9	NM	37	<0.050	<0.010	<2.6	<0.050	NM
	12/20/2016	11.3	920	3.60	7.52	-123.4	NM	40	<0.050	0.011	<2.6	<0.050	NM
	03/28/2017	10.7	881	3.14	7.80	12.7	NM	44	0.064	0.024	<2.20	<0.050	NM
	06/28/2017	14.1	890	1.08	7.24	-93.4	NM	41	<0.050	0.024	<7.0	<0.050	NM
	09/19/2017	15.0	964	4.38	7.69	-20.1	NM	42	<0.050	<0.010	<7.0	<0.050	NM
	12/27/2017	11.2	893	3.04	7.45	20.0	NM	36	<0.050	0.011	<7.0	0.056	NM
	03/19/2018	10.3	815	3.65	7.42	-34.6	NM	39	<0.050	<0.010	<7.0	<0.050	NM
	06/06/2018	13.2	889	2.34	5.51	21.4	NM	39	<0.050	<0.010	<7.0	<0.050	NM
	12/03/2018	13.4	883	0.99	7.39	-32.4	NM	37	<0.050	0.024	<7.0	<0.050	NM

95-214880 Global Companies, LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 3 Geochemical and Monitored Natural Attenuation Data											
Well ID	Date	Field Temperature (°C)	Field Conductivity (µS/cm)	Field DO (mg/L)	Field pH (S.U.)	ORP (mV)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (µg/L)	Nitrate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)
OW-ED (cont.)	03/25/2019	11.2	892	3.70	7.30	-60.4	NM	43	<0.050	<0.010	<7.0	0.32	NM
	06/24/2019	14.7	920	1.63	7.49	69.7	NM	39	<0.050	<0.010	<7.0	<0.10	NM
	10/17/2019	13.6	872	0.27	6.83	-179.8	NM	43	<0.050	<0.010	<7.0	<0.10	NM
	12/18/2019	11.7	1,067	1.79	6.34	-21.0	NM	33	<0.050	0.01	<7.0	0.19	NM
	05/11/2020	13.2	864	5.14	7.33	-17.5	NM	44	<0.050	<0.010	<7.0	<0.05	NM
	09/24/2020	17.7	1,333	3.43	6.02	-400.8	NM	41	<0.050	0.019	<7.0	0.20	NM
	12/21/2020	12.4	760	7.55	7.87	85.1	NM	40	<0.050	0.024	<7.0	0.30	NM
	03/22/2021	13.4	811	2.89	7.81	-368.2	NM	41	<0.050	0.014	<7.0	0.24	NM
	06/16/2021	13.8	850	2.19	7.27	-9.4	NM	40	<0.050	<0.010	<7.0	0.31	NM
	09/17/2021	15.6	849	2.07	7.46	66.4	NM	41	<0.050	<0.010	<7.0	<0.10	NM
	12/17/2021	14.5	824	4.92	8.04	-2.8	NM	40	0.40	0.050	<7.0	<0.10	NM
	03/16/2022	10.6	810	3.88	7.70	32.6	NM	40	0.051	<0.010	<7.0	0.22	NM
	07/11/2022	16.1	760	1.87	7.57	-17.3	NM	41	0.053	<0.010	<7.0	<0.10	NM
OW-G	09/30/2010	18.2	1,167	2.35	6.21	156.8	NM	NM	NM	NM	NM	NM	NM
	12/29/2010	11.3	660	10.16	6.29	119.5	NM	NM	NM	NM	NM	NM	NM
	06/28/2011	19.5	2,282	10.25	5.80	188.1	2.1	24.3	NM	NM	NM	<0.100	48.8
OW-I	01/04/2005	11.1	848	0.83	6.32	144.9	0.9	22.0	NM	NM	NM	1.1	NM
	05/06/2005	9.6	238	0.51	6.14	43.4	0.0	16.0	NM	NM	NM	0.4	NM
	08/01/2005	14.4	871	1.00	5.88	275.6	1.2	12.0	NM	NM	NM	0.3	NM
	12/08/2005	9.0	533	8.16	6.23	245.6	4.6	10.0	NM	NM	NM	0.9	NM
	02/02/2006	7.0	1,424	1.27	6.23	223.3	0.58	13.0	NM	NM	NM	0.8	NM
	05/26/2006	9.4	207	1.41	6.52	44.8	2.1	18.0	NM	NM	NM	1.4	NM
	09/01/2006	15.1	840	0.82	5.72	82.7	≥3.0	11.0	NM	NM	NM	0.4	NM
	12/13/2006	11.4	628	0.25	6.86	76.4	2.0	11.0	NM	NM	NM	8.7	NM
	03/30/2007	7.0	306	0.25	6.00	14.8	1.4	1.0	NM	NM	NM	1.0	NM
OW-J	01/04/2005	9.8	872	2.26	6.58	145.6	0.8	9.0	NM	NM	NM	0.9	NM
	05/06/2005	10.5	409	2.69	6.58	23.7	0.0	10.0	NM	NM	NM	0.0	NM
	08/01/2005	16.4	978	1.00	6.08	280.6	1.4	4.0	NM	NM	NM	0.5	NM
	12/08/2005	8.8	340	7.32	6.96	209.5	0.5	3.0	NM	NM	NM	0.9	NM
	02/02/2006	6.3	408	2.23	6.87	172.4	0.66	4.0	NM	NM	NM	12.0	NM
	05/26/2006	10.0	93	1.30	6.97	105.1	0.8	8.0	NM	NM	NM	12.0	NM
	09/01/2006	15.7	310	0.48	6.57	4.7	1.96	19.0	NM	NM	NM	1.1	NM
	12/13/2006	11.0	348	0.50	7.15	56.8	0.6	5.0	NM	NM	NM	5.7	NM
	03/30/2007	5.5	179	5.38	6.76	402	0.0	2.0	NM	NM	NM	12.0	NM
	06/25/2007	11.6	393	0.11	6.72	-305.2	0.35	28.0	NM	NM	NM	6.1	NM
	01/08/2008	9.3	478	1.15	6.66	23.3	0.2	23.0	NM	NM	NM	1.3	NM
	06/19/2008	13.0	710	0.17	6.43	94.9	1.0	29.0	NM	NM	NM	1.1	NM
	01/14/2009	7.4	378	0.90	7.44	10.3	0.8	23.0	NM	NM	NM	1.7	NM
	06/19/2009	11.6	511	0.27	6.54	70.8	1.0	26.0	NM	NM	NM	2.8	NM
	12/22/2009	3.7	506	2.18	6.38	48.4	1.71	10.0	NM	NM	NM	1.3	NM
	06/11/2010	11.4	632	0.10	6.36	-32.8	1.8	8.0	NM	NM	NM	1.3	NM
OW-K	07/13/2004	10.8	261	0.09	9.09	94.3	0.0	25.0	NM	NM	NM	0.0	NM
	01/04/2005	8.7	470	5.69	6.05	188.7	0.8	7.0	NM	NM	NM	1.5	NM
	05/06/2005	9.5	182	1.05	5.93	62.6	0.0	9.0	NM	NM	NM	0.0	NM
	08/01/2005	16.4	213	1.58	5.96	195.7	0.0	12.0	NM	NM	NM	0.4	NM
	12/08/2005	8.0	102	2.95	6.06	186.1	0.5	27.0	NM	NM	NM	3.9	NM
	02/02/2006	6.4	131	1.10	6.40	156.2	0.25	5.0	NM	NM	NM	1.5	NM
	05/26/2006	11.5	38	10.12	6.59	330.9	1.0	5.0	NM	NM	NM	1.8	NM
	09/01/2006	15.2	172	0.61	5.72	127.2	0.66	4.0	NM	NM	NM	0.6	NM
	12/13/2006	1027.0	338	0.51	6.87	148.2	0.0	6.0	NM	NM	NM	5.6	NM
	03/30/2007	6.0	78	4.51	5.73	63.3	0.0	2.0	NM	NM	NM	1.0	NM
	06/25/2007	11.9	263	0.13	6.15	-219.7	0.58	13.0	NM	NM	NM	10.0	NM
	01/07/2008	8.4	467	0.93	6.03	51.9	0.4	4.0	NM	NM	NM	1.1	NM
	06/19/2008	11.7	255	0.36	6.08	114.5	0.5	5.0	NM	NM	NM	12	NM
	01/14/2009	7.4	146	1.58	7.03	20.9	0.0	2.0	NM	NM	NM	2.1	NM
	06/19/2009	11.5	125	2.09	6.06	146.4	0.0	10.0	NM	NM	NM	3.0	NM
	12/22/2009	8.1	204	2.05	5.68	176.3	0.35	8.0	NM	NM	NM	1.3	NM
	06/11/2010	11.6	308	0.16	6.14	0.8	0.2	4.0	NM	NM	NM	1.3	NM
	06/28/2011	12.9	211	2.46	5.51	277.1	0.0	7.9	NM	NM	NM	3.6	37.3

95-214880 Global Companies, LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 3 Geochemical and Monitored Natural Attenuation Data											
Well ID	Date	Field Temperature (°C)	Field Conductivity (µS/cm)	Field DO (mg/L)	Field pH (S.U.)	ORP (mV)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (µg/L)	Nitrate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)
OW-L	07/13/2004	11.2	969	0.03	8.25	47.8	1.8	34.0	NM	NM	NM	0.6	NM
	01/04/2005	6.2	57	12.03	6.36	176.5	0.0	0.0	NM	NM	NM	1.3	NM
	05/06/2005	10.1	374	0.76	5.77	64.1	0.0	0.0	NM	NM	NM	0.0	NM
	08/01/2005	13.9	1025	3.00	5.93	199	3.2	52.0	NM	NM	NM	0.0	NM
	12/08/2005	6.8	626	4.10	6.50	92.1	3.0	4.0	NM	NM	NM	12.0	NM
	02/02/2006	6.3	1,444	0.06	6.44	210.4	2.05	3.0	NM	NM	NM	12.0	NM
	05/26/2006	14.4	234	0.94	6.71	-70.8	4.1	6.0	NM	NM	NM	2.0	NM
	09/01/2006	15.8	636	1.67	5.96	-0.1	73.0	5.0	NM	NM	NM	0.8	NM
	03/30/2007	6.1	61	3.32	6.01	44.9	0.0	14.0	NM	NM	NM	22.0	NM
	06/25/2007	13.0	1,441	0.24	6.37	-307.3	6.19	15.0	NM	NM	NM	18.1	NM
	01/07/2008	9.0	1,073	0.10	6.19	32.3	5.4	32.0	NM	NM	NM	5.1	NM
	06/19/2008	13.2	1,522	0.24	6.12	70.4	3.4	23.0	NM	NM	NM	2.1	NM
	01/14/2009	8.1	358	0.43	7.29	6.6	3.0	4.0	NM	NM	NM	1.8	NM
	06/19/2009	13.9	127	5.60	6.19	102.8	1.6	11.0	NM	NM	NM	3.5	NM
	12/22/2009	9.4	545	1.05	5.62	168.3	1.5	11.0	NM	NM	NM	1.0	NM
	06/11/2010	11.5	1,314	0.34	6.03	-72	3.0	13.0	NM	NM	NM	2.3	NM
OW-M	07/13/2004	9.7	1,138	0.02	8.68	-7.1	2.4	19.0	NM	NM	NM	0.9	NM
	05/06/2005	10.5	215	1.36	6.05	19.4	2.4	0.0	NM	NM	NM	0.0	NM
OW-N	03/10/2003	7.3	392	1.06	6.55	207.2	NM	NM	NM	NM	NM	NM	NM
	05/04/2004	9.9	453	5.00	7.78	175.6	NM	NM	NM	NM	NM	NM	NM
	06/17/2004	12.9	647	0.76	6.45	77.7	0.4	52.0	NM	NM	NM	2.8	60
	05/06/2005	12.3	403	2.53	6.23	49	0.0	26.0	NM	NM	NM	7.6	NM
	08/01/2005	16.9	823	0.86	6.06	321.9	0.0	11.0	NM	NM	NM	0.0	NM
	12/08/2005	12.0	473	12.53	6.67	386.7	0.0	19.0	NM	NM	NM	0.43	NM
	02/02/2006	9.0	635	3.35	6.60	196.4	0.04	21.0	NM	NM	NM	1.1	NM
	05/26/2006	12.2	108	4.00	6.79	207.7	0.7	43.0	NM	NM	NM	12	NM
	09/01/2006	16.3	393	0.97	6.63	102.2	1.5	37.0	NM	NM	NM	3.4	NM
	03/30/2007	9.1	338	1.31	6.27	30.6	0.0	28.0	NM	NM	NM	1.8	NM
	06/25/2007	13.4	828	0.12	6.35	-279.3	0.13	29.0	NM	NM	NM	7.5	NM
	01/07/2008	11.8	522	1.08	6.72	16.6	0.0	26.0	NM	NM	NM	1.5	NM
	06/19/2008	13.7	726	0.16	6.29	100.5	1.0	30.0	NM	NM	NM	1.5	NM
	01/14/2009	9.7	298	1.50	7.73	4.0	1.0	2.3	NM	NM	NM	12.0	NM
	06/19/2009	14.2	893	1.19	6.33	154.0	0.0	6.0	NM	NM	NM	1.8	NM
	12/22/2009	11.6	758	1.53	6.23	177.0	0.0	6.0	NM	NM	NM	1.0	NM
	06/11/2010	12.9	1271	0.24	6.13	-5.4	1.6	18.0	NM	NM	NM	4.7	NM
OW-0	03/10/2003	9.5	700	1.07	6.32	56.6	NM	NM	NM	NM	NM	NM	NM
	05/04/2004	8.9	1,083	1.22	7.89	172.7	NM	NM	NM	NM	NM	NM	NM
	06/17/2004	10.7	571	0.29	6.25	35.6	3.8	18.0	NM	NM	NM	0.4	130
	07/13/2004	11.0	736	0.36	8.87	13	3.2	32.0	NM	NM	NM	0.6	NM
	01/04/2005	13.1	1,055	1.24	6.26	107.3	3.8	44.0	NM	NM	NM	1.7	NM
	05/06/2005	10.2	995	1.06	6.17	19.5	2.8	22.0	NM	NM	NM	0	NM
	08/01/2005	16.8	621	3.08	6.22	167.1	0.0	29.0	NM	NM	NM	0.0	NM
	12/08/2005	10.8	696	10.25	6.22	365.6	0.0	44.0	NM	NM	NM	1.1	NM
	02/02/2006	8.6	802	3.75	6.46	186.7	21.0	26.0	NM	NM	NM	0.9	NM
	05/26/2006	10.3	231	2.45	6.69	275.5	0.8	12.0	NM	NM	NM	8.8	NM
	09/01/2006	13.4	379	0.45	6.19	38.5	>3.0	20.0	NM	NM	NM	0.8	NM
	12/13/2006	11.8	904	1.56	7.09	-32	3.4	6.0	NM	NM	NM	8.6	NM
	03/30/2007	7.8	619	3.05	6.17	42.6	0.0	3.0	NM	NM	NM	0.9	NM
	06/25/2007	12.0	746	2.73	6.45	-179.1	0.64	16.0	NM	NM	NM	72.0	NM
	01/08/2008	10.9	1,607	0.19	6.63	-4.9	1.8	11.0	NM	NM	NM	1.6	NM
	06/19/2008	11.5	1,266	0.33	6.20	76.7	6.0	38.0	NM	NM	NM	1.5	NM
	01/14/2009	8.6	512	3.96	7.40	1.0	0.0	1.0	NM	NM	NM	1.4	NM
	06/16/2009	11.0	779	0.59	6.37	67.8	1.8	23.0	NM	NM	NM	2.4	NM
	12/22/2009	10.8	486	4.74	6.12	141.5	0.3	5.0	NM	NM	NM	0.5	NM
	06/11/2010	10.7	1,023	0.22	6.22	-33.4	3.2	8.0	NM	NM	NM	1.6	NM

95-214880 Global Companies, LLC Mobil Station No. 1436 309 Lowell Street Andover, MA		Table 3 Geochemical and Monitored Natural Attenuation Data												
Well ID	Date	Field Temperature (°C)	Field Conductivity (µS/cm)	Field DO (mg/L)	Field pH (S.U.)	ORP (mV)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (µg/L)	Nitrate (mg/L)	Total Alkalinity (mg/L as CaCO ₃)	
OW-P	07/13/2004	10.7	437	1.36	8.83	472	1.1	31.0	NM	NM	NM	0.1	NM	
	01/04/2005	112.0	672	5.04	6.24	239.4	0.6	7.0	NM	NM	NM	0.4	NM	
	05/06/2005	10.5	602	2.88	5.80	70.3	0.0	11.0	NM	NM	NM	0.7	NM	
	08/01/2005	17.4	1,278	3.51	5.90	322.9	0.0	13.0	NM	NM	NM	0.3	NM	
	12/08/2005	9.6	349	7.20	6.05	367.6	0.0	39.0	NM	NM	NM	3.1	NM	
	02/02/2006	7.4	761	1.19	6.45	170.1	0.31	9.0	NM	NM	NM	0.7	NM	
	05/26/2006	10.0	175	4.41	6.52	401.1	0.6	12.0	NM	NM	NM	0.8	NM	
	09/01/2006	14.9	653	2.49	5.69	202.9	0.04	0.0	NM	NM	NM	0.5	NM	
	03/30/2007	6.6	292	2.07	5.59	63.3	0.0	0.0	NM	NM	NM	0.9	NM	
	06/25/2007	11.9	981	1.07	5.77	-150.8	0.33	18.0	NM	NM	NM	8.9	NM	
	01/07/2008	8.0	700	2.36	6.22	272	0.0	13.0	NM	NM	NM	12	NM	
	06/19/2008	12.2	1,670	0.46	5.67	181.1	0.0	5.0	NM	NM	NM	1.4	NM	
	01/14/2009	7.8	365	0.26	7.33	42	0.0	11.0	NM	NM	NM	1.0	NM	
	06/19/2009	12.4	1,210	2.40	5.62	154.9	0.0	12.0	NM	NM	NM	1.6	NM	
	12/22/2009	9.4	571	0.64	5.48	81.8	0.01	10.0	NM	NM	NM	1.6	NM	
	06/11/2010	10.7	1,330	2.08	5.41	65.6	0.6	6.0	NM	NM	NM	1.3	NM	
OW-Q	07/13/2004	10.2	1,691	0.23	8.52	120.8	0.0	26.0	NM	NM	NM	0.7	NM	
	05/06/2005	10.0	1,977	1.74	5.18	107.3	0.1	17.0	NM	NM	NM	0.0	NM	
	08/01/2005	16.6	6.06	0.94	5.64	300.2	0.0	15.0	NM	NM	NM	0.0	NM	
	12/08/2005	7.7	436	4.66	5.71	362.3	0.0	11.0	NM	NM	NM	1.6	NM	
	02/02/2006	4.8	2,379	0.12	6.16	215.0	2.18	9.0	NM	NM	NM	1.5	NM	
	05/26/2006	12.7	231	1.66	6.26	253.2	1.4	10.0	NM	NM	NM	0.9	NM	
	09/01/2006	19.3	261	0.43	5.93	85.3	0.25	14.0	NM	NM	NM	0.8	NM	
	03/30/2007	4.6	860	1.05	5.65	26.7	2.7	33.0	NM	NM	NM	0.9	NM	
	06/25/2007	14.2	1,003	0.20	6.07	-180.4	2.53	12.0	NM	NM	NM	32.0	NM	
	01/07/2008	6.9	3,194	0.13	6.09	24.6	3.6	1.0	NM	NM	NM	27.0	NM	
OW-R	07/13/2004	10.2	1,343	1.42	8.18	174.5	0.4	27.0	NM	NM	NM	0.8	NM	
	01/04/2005	12.5	1,495	2.63	5.71	219.8	0.0	10.0	NM	NM	NM	1.4	NM	
	05/06/2005	10.3	1,697	1.79	5.58	89.1	0.0	16.0	NM	NM	NM	0.4	NM	
	08/01/2005	15.6	498	0.90	5.91	290.1	0.0	8.0	NM	NM	NM	0.5	NM	
	12/08/2005	10.4	573	8.70	6.03	342.7	0.0	6.0	NM	NM	NM	0.7	NM	
	02/02/2006	5.8	2,294	2.42	6.56	201.5	0.03	17.0	NM	NM	NM	1.0	NM	
	05/26/2006	10.9	180	2.09	6.26	348.1	0.9	15.0	NM	NM	NM	2.6	NM	
	09/01/2006	18.7	212	0.63	6.23	121.8	0.09	28.0	NM	NM	NM	0.6	NM	
	12/13/2006	11.8	462	1.56	7.09	-32	3.4	6.0	NM	NM	NM	8.6	NM	
	03/30/2007	7.5	913	1.18	5.69	60.9	0.0	23.0	NM	NM	NM	1.0	NM	
06/25/2007	13.1	849	0.17	6.03	-150.1	26.0	10.0	NM	NM	NM	9.8	NM		
01/07/2008	Could not Locate due to Snow Cover													
OW-S	03/10/2003	10.1	464	3.99	6.13	91.5	NM	NM	NM	NM	NM	NM	NM	
	05/04/2004	NL	NL	NL	NL	NL	NL	NL	NM	NM	NM	NL	NL	
	06/17/2004	NL	NL	NL	NL	NL	NL	NL	NM	NM	NM	NL	NL	
	05/06/2005	DRY												
	08/01/2005	DRY												
	12/08/2005	10.5	382	14.97	6.03	388.4	0.0	8.0	NM	NM	NM	1.0	NM	
	02/02/2006	6.4	1,105	7.20	8.04	154.4	0.01	7.0	NM	NM	NM	1.4	NM	
	05/26/2006	9.8	120	11.66	6.34	352.4	0.7	22.0	NM	NM	NM	0.7	NM	
	12/13/2006	1227.0	523	2.09	6.70	143.5	0.0	14.0	NM	NM	NM	82	NM	
	03/30/2007	10.3	305	2.40	5.79	59.1	0.0	10.0	NM	NM	NM	0.7	NM	
	06/25/2007	11.6	612	0.62	6.04	65.3	0.36	14.0	NM	NM	NM	0.8	NM	
	01/07/2008	11.4	826	0.58	6.57	-57.5	1.4	27.0	NM	NM	NM	1.0	NM	
	06/19/2008	11.0	880	0.63	5.17	216.6	0.0	5.0	NM	NM	NM	0.7	NM	
	01/14/2009	10.5	535	1.82	7.46	2.7	0.0	12.0	NM	NM	NM	1.6	NM	
	06/19/2009	11.9	1,024	0.90	5.73	122.8	0.0	14.0	NM	NM	NM	1.5	NM	
	12/23/2009	10.9	698	0.95	5.72	102.3	0.0	12.0	NM	NM	NM	1.3	NM	
06/11/2010	10.8	962	0.90	5.63	57.4	0.0	4.0	NM	NM	NM	0.9	NM		
06/28/2011	14.0	875	5.43	5.52	275.1	0.0	13.1	NM	NM	NM	1.5	18.4		
OW- U	07/13/2004	11.0	922	4.29	8.29	129.4	0.0	8.0	NM	NM	NM	0.9	NM	
	06/25/2007	13.0	336	3.12	5.81	121.3	27	17.0	NM	NM	NM	8.7	NM	
	06/25/2007	13.0	336	3.12	5.81	121.3	27	17.0	NM	NM	NM	8.7	NM	
Notes: °C = Degrees Celsius. mg/L = micrograms per liter. µS/cm = microsiemens per centimeter. mV = millivolts. mg/L = milligrams per liter. NM = not measured. NR = not recorded. NL= not located Field = measured in the field utilizing a Horiba Water Analyzer.														QA/QC INFO: LAST UPDATED BY: PDC DATE: 7/29/2022 LAST CHECKED BY: DWF DATE: 8/22/2022

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover MA	Table 4 Lines of Evidence for MNA March 2022 Groundwater Sampling								
	Well Location	DO	pH	ORP	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
	Upgradient Area	High	Neutral	High	Low	Low	Low	High	High
	Target Area	Low	Low	Low	High	High	High	Low	Low
	Downgradient Area	High	Neutral	High	Low	Low	Low	High	High
	Aerobic Trends			Anaerobic Trends					
Well Location	DO	pH	ORP	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	
Upgradient Area (MW-1)	0.47	6.35	13.2	11	3.2	170	<0.010	75	
Target Area (MW-3)	0.38	6.32	9.6	0.37	0.12	61	0.23	34	
Target Area (OW-13)	0.33	6.24	23.7	4.9	1.1	230	0.73	31	
Downgradient Area (OW-ED)	3.88	7.70	32.6	0.051	<0.010	<7.0	0.22	40	
Conclusion	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	
Notes: + indicates natural attenuation is occurring based on monitoring data - indicates natural attenuation is not occurring based on monitoring data +/- indicates natural attenuation is inconclusive based on monitoring data McAllister, P.M., and Chiang, C.Y. 1994. <i>A Practical Approach to Evaluating Natural Attenuation of Contaminants in Ground Water</i> . GWMR Spring 1994: pp. 161-173.									

95-214880 Global Companies LLC Mobil Station No. 1436 309 Lowell Street Andover MA	Table 5 Lines of Evidence for MNA July 2022 Groundwater Sampling								
	Well Location	DO	pH	ORP	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
	Upgradient Area	High	Neutral	High	Low	Low	Low	High	High
	Target Area	Low	Low	Low	High	High	High	Low	Low
	Downgradient Area	High	Neutral	High	Low	Low	Low	High	High
	Aerobic Trends			Anaerobic Trends					
Well Location	DO	pH	ORP	Dissolved Iron (mg/L)	Dissolved Manganese (mg/L)	Methane (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	
Upgradient Area (MW-1)	0.33	6.28	-11.4	54	7.7	340	0.40	38	
Target Area (MW-3)	0.09	6.48	-123.8	4.2	0.11	1,600	<0.10	20	
Target Area (OW-13)	0.29	6.42	-42.2	2.8	0.47	230	<0.10	20	
Downgradient Area (OW-ED)	1.87	7.57	-17.3	0.053	<0.010	<7.0	<0.10	41	
Conclusion	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	
Notes: + indicates natural attenuation is occurring based on monitoring data - indicates natural attenuation is not occurring based on monitoring data +/- indicates natural attenuation is inconclusive based on monitoring data McAllister, P.M., and Chiang, C.Y. 1994. <i>A Practical Approach to Evaluating Natural Attenuation of Contaminants in Ground Water</i> . GWMR Spring 1994: pp. 161-173.									

Table 6
Public Involvement Plan Mailing List
Global Companies, LLC
309 Lowell Street (Station #1436)
Andover, Massachusetts
Project No. 95-214880

Party	Business	Street Address	City/Town	02/2022 Mailings Status	Receipt
Memorial Hall Library (Repository)	Town of Andover	2 North Main Street	Andover, MA 01810	FedEx; 02/22/2022	02/23/2022
Town of Andover Board of Health (Repository)	Town of Andover	36 Bartlet Street	Andover, MA 01810	FedEx; 02/22/2022	02/23/2022
The Andover Townsman	Editorial Department	33 Chestnut Street	Andover, MA 01810	FedEx; 02/22/2022	02/23/2022
Town of Andover Board of Selectmen	Town of Andover	36 Bartlet Street	Andover, MA 01810	FedEx; 02/22/2022	02/23/2022
Conservation Law Foundation of New England	N/A	62 Summer Street	Boston, MA 02108	FedEx; 02/22/2022	02/23/2022
Mr. Mark Curtin	N/A	67 Abbot Street	Andover, MA 01810	FedEx; 02/22/2022	02/23/2022
Town of Andover Department of Community Development and Planning	Town of Andover	36 Bartlet Street	Andover, MA 01810	FedEx; 02/22/2022	02/23/2022
Mr. and Mrs. Frank Firicano	N/A	110 Abbot Street	Andover, MA 01810	FedEx; 02/22/2022	02/23/2022
Ms. Kaija Gilmore	N/A	83 Elm Street	Andover, MA 01810	FedEx; 02/22/2022	02/23/2022
Mr. Donald Cooper	Andover Conservation Commission	36 Bartlet Street	Andover, MA 01810	FedEx; 02/22/2022	02/23/2022
Mr. Ronald Hill	N/A	15 Abbot Street	Andover, MA 01810	FedEx; 02/22/2022	02/23/2022
Lawrence Eagle Tribune	News Room	P.O. Box 100	Lawrence, MA 01842	Certified Mail; 02/22/2022	03/14/2022
Mr. Scott Matsumoto	N/A	15 Windemere Drive	Andover, MA 01810	FedEx; 02/22/2022	02/23/2022
Merrimack River Watershed Council	N/A	60 Island Street #2	Lawrence, MA 01842	FedEx; 02/22/2022	02/23/2022
Merrimack Valley Planning Commission	N/A	160 Main Street	Haverhill, MA 01830	FedEx; 02/22/2022	02/23/2022
Mr. James Paul	Lowell Street Investments	1 Washington St., Suite 400	Wellesley, MA 02481	FedEx; 02/22/2022	02/23/2022
Mr. Jack Petkus	Andover Department of Public Works	Water Treatment Plant, 397 Lowell Street	Andover, MA 01810	FedEx; 02/22/2022	02/23/2022
Mr. Robert Pursell	N/A	86 Porter Road	Andover, MA 01810	FedEx; 08/13/2021; FedEx reported no #86 (02/2021)	
Mr. Robert Douglas	Andover Conservation Commission	36 Bartlet Street	Andover, MA 01810	FedEx; 02/22/2022	02/23/2022
Residents	N/A	3 Nab Hill Circle	Andover, MA 01810	FedEx; 02/22/2022	02/23/2022
Mr. and Mrs. Thomas Richardson	N/A	23 Greenwood Road	Andover, MA 01810	FedEx; 08/13/2021; RMNFA	
Ms. Karen Stromberg	MassDEP	One Winter Street	Boston, MA 02108	FedEx; 02/22/2022	02/23/2022
Deputy Assistant Commissioner, BWSC	MassDEP	One Winter Street	Boston, MA 02108	FedEx; 02/22/2022	02/23/2022

Notes:

NDAAUTF Not deliverable as addressed; unable to forward

RTS Returned to sender

RMNFA Recipient moved and left no forwarding address

Yellow Shading indicates not sent 08/2022 due to lack of forwarding information

ATTACHMENT I

CONCEPTUAL SITE MODEL

**Conceptual Site Model
Mobil Station #1436
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072**

The Site consists of a 0.51 acre parcel located within a commercially zoned area of Andover. According to previous environmental reports prepared by Applied Geosystems, Inc., Groundwater and Environmental Services, Inc. (GES) and Camp, Dresser and McKee, Inc. (CDM), as well as available historical topographic maps and aerial photographs, the Site was first developed as a gasoline filling station circa 1959. Prior to 1959, the property was reportedly part of a dairy farm operation. The area surrounding the Site consists of both commercial businesses and residential properties. The Site is currently improved with a single-story, slab-on-grade construction building improved with a Dunkin' restaurant and a convenience store. The Site is serviced by underground municipal water and sanitary sewer utilities as well as overhead electric and communication utilities.

Prior to 1986, the Site was utilized as an automotive repair facility and retail gasoline station. In 1989 the service bays were remodeled and the building was converted to a convenience store. Former Site features associated with the use of the Site as an automotive repair facility included a former 500-gallon waste oil UST (reportedly removed from the Site in 1987), two hydraulic lifts, floor drains, an oil/water separator, a drywell and a former 550-gallon fuel oil UST (reportedly removed from the Site in 1989).

Sensitive receptors located in the vicinity of the Site include an intermittent stream which flows along the northern boundary of the Site and is a tributary to Fish Brook. Fish Brook discharges into Haggets Pond. The Site is also located within the boundaries of a Zone A Surface Water Supply Protection Area associated with Haggets Pond, which supplies drinking water to the Town of Andover. The Haggets Pond surface water intake is located approximately 0.75 miles southwest of the Site. The nearest public water supply (PWS) well is located approximately 1.5 miles to the southeast of the Site. The Site is not located within the boundaries of a Zone II Area, an IWPA or a PPA. According to previous environmental reports, no private drinking water supply wells are known to be located within 500 feet of the Site. Depth to groundwater beneath the Site has historically been observed at depths ranging from 3 to 13 feet bgs and groundwater beneath the Site has been historically calculated to flow in a north-northeasterly direction.

Potential human receptors present at the Site under current Disposal Site conditions include adult Site workers, adult and child Site visitors/patrons, adult and child trespassers/passersby and adult utility workers. Under potential future Disposal Site conditions, potential human receptors that may be present at the Site include all of the above as well as potential future adult and child residents and adult construction workers.

Due to the Site's location within the boundaries of a Zone A Surface Water Supply Protection Area, MCP Method 1 Risk Characterization Groundwater Category GW-1 applies to all groundwater located beneath the Site. Additionally, due to the average annual depth to groundwater being less than 15 feet bgs, MCP Groundwater Category GW-2 also applies to all groundwater located within 30 feet of an occupied structure at the Site. Lastly, MCP Groundwater Category GW-3 applies to all groundwater in the Commonwealth of Massachusetts. For soil, MCP Category S-1 applies to all soil located between the ground surface and 3 feet bgs in unpaved areas of the Site and MCP Soil Category S-2 applies to all soil located between 3 and

15 feet bgs beneath paved surface at the Site. Soil located greater than 15 feet bgs or beneath permanent structures at the Site is classified as MCP Category S-3 soil.

The property first became a MassDEP listed Site following the discovery of petroleum impacted soil and groundwater during the removal of a 550-gallon fuel oil UST in November 1989. The contaminants identified were characterized as being related to weathered gasoline. Various environmental reports and remedial response actions have been conducted at the Site since 1989. Remedial response actions conducted at the Site during that timeframe are summarized below:

- Excavation and disposal of approximately 30 cubic yards of petroleum impacted soil in November 1989 during former fuel oil UST excavation activities (MassDEP RTN 3-3072);
- Operation of a groundwater recovery, AS, and SVE system at the Site (January 1991 – March 2007);
- Completion of IRA activities associated for MassDEP RTN 3-13955 in August of 1996, associated with a release of gasoline from a malfunctioning gasoline UST flex connector (RTN was subsequently linked to RTN 3-3072);
- Completion of IRA activities associated with a SRM condition identified at the Site in May 1998 following an increase of MTBE concentrations in groundwater (IRA activities were conducted under MassDEP RTN 3-3072);
- Completion of IRA activities associated with the detection of greater than 0.5 inches of LNAPL in monitoring well MW-2 in September 2001. IRA activities were conducted under MassDEP RTN 3-21062 and included hand bailing of LNAPL and an evaluation of potential LNAPL migration pathways (RTN 3-21062 was subsequently linked to RTN 3-3072);
- September through November 2001 – LNAPL hand-bailing activities were conducted at the Site under an IRA for MassDEP RTN 3-21062;
- Excavation and disposal of approximately 160 cubic yards of petroleum impacted soil in September 2005 under a RAM during the completion of UST system upgrade activities;
- Excavation and disposal of approximately 756 tons of petroleum impacted soil, the extraction, treatment and subsequent discharge of approximately 60,700 gallons of groundwater, and the extraction and disposal of approximately 9,000 gallons of groundwater during the completion of UST removal and replacement activities in April 2014; and,
- Performance of an ongoing MNA program under ROS, which includes semi-annual groundwater sampling for VPH and MNA parameters as well as semi-annual surface water sampling (discontinued in June 2012).

The source of Site petroleum hydrocarbon contamination at the Site is attributed to a release of an unknown quantity of gasoline associated with the historical use of the Site as a gasoline filling station. Impacted soil was identified during the excavation and removal of a former 550-gallon fuel oil UST at the Site in 1989. Subsequent subsurface investigation activities have indicated that the highest concentrations of petroleum hydrocarbons impacts detected in soil appear to be located immediately downgradient of the current gasoline UST and fuel dispenser systems. Additionally, soil impacts have been observed at depths ranging from approximately 4 to 9 feet bgs in the vicinity of the former fuel oil UST that was located near the southeastern corner of the on-site building.

Historically, dissolved-phase VPH constituents have been detected in groundwater samples collected from both on- and off-site groundwater monitoring wells. The highest concentrations of

dissolved-phase contaminants are located in the vicinity of groundwater monitoring wells OW-13 and MW-2. The furthest historical downgradient detection of VPH constituents (MTBE) has been in downgradient, off-site monitoring well OW-S, located approximately 750 feet from the source area. The average concentration of VPH C9-C10 aromatics during the four most recent groundwater sampling events through December 2020 slightly exceeded MCP Method 1 GW-1 standards at monitoring wells MW-3 and OW-13. Dissolved-phase VPH target constituents otherwise were not detected at concentrations greater than their applicable GW-1 groundwater standards in any of the groundwater monitoring wells sampled. Additionally, with the exception of one groundwater sample collected from monitoring well OW-K in January 2008, no groundwater samples collected from any on or off-site monitoring wells have exhibited concentrations of MTBE greater than the MCP Method 1 GW-1 Groundwater Standard for that parameter since at least December 2006.

The Disposal Site boundaries encompass portions of the source property as well as impacted downgradient/cross gradient parcels 151-13, 1151-4, 151-14A, and 151-14B, as identified on the Town of Andover tax map #151 and Figure 3. These parcels are occupied by an undeveloped residential property (parcel 13), a golf course and driving range (parcel 14), an apartment complex (parcel 14A), and an athletic club (parcel 14B).

Timeline: key Regulatory Dates
MassDEP RTN 3-3072 and
Related RTNs 3-13955, 3-21062, 3-22521, and 3-32096

November 13, 1989	Gasoline related petroleum constituents detected in soil and groundwater during UST removal.
January 9, 1990	Phase I Limited Site Investigation completed by Applied Geosystems, Inc. MassDEP RTN 3-3072 assigned to the Site at that time.
March 31, 1992	Site classified as a Tier II Disposal Site.
June 29, 1996	IRA activities initiated following a release of gasoline from a gasoline UST flex connector. RTN 3-13955 assigned to the release condition at that time.
March 26, 1998	IRA Completion Report submitted to MassDEP by GES for RTN 3-13955, which was linked to RTN 3-3072 at that time.
May 1998	SRM condition identified relative to an increase of MTBE concentrations in groundwater. Subsequent IRA activities were conducted at the Site under RTN 3-3072.
September 10, 2001	MassDEP RTN 3-21062 issued to the Site following notification of the detection of greater than 0.5 inches of LNAPL in monitoring well MW-2. IRA activities were conducted which including hand bailing of LNAPL and an evaluation of potential LNAPL migration pathways.
November 15, 2001	An IRA Completion report for RTN 3-21062 was filed with MassDEP, at which time RTN 3-21062 was linked to RTN 3-3072.
October 3, 2002	PCBs were detected in a soil sample collected from a depth range of 6 to 8 feet bgs at a concentration exceeding the MCP RCS-1 Reportable Concentration for that parameter during the performance of subsurface investigation activities. The PCB detection was subsequently reported to MassDEP on January 27, 2003 and MassDEP issued RTN 3-22521 to the condition at that time.
July 30, 2003	MassDEP RTN 3-22521 linked to RTN 3-3072.
October 28, 2003	Phase II Comprehensive Site Assessment submitted to MassDEP by GES.
December 21, 2003	Notice of Noncompliance (NON) issued to Exxon Mobil for failure to submit a Phase III RAP, Phase IV RIP, and a RAO Statement by their respective MCP deadlines. The NON required a RAO Statement or Phase III/Phase IV/ROS Opinion be submitted to MassDEP on or before September 1, 2004. CDM becomes the consultant of record for the Site.
February 13, 2004	Tier II Extension submitted by CDM to continue response actions at the Site.

April 1, 2004	Phase III RAP submitted to MassDEP by CDM.
April 13, 2004	A URAM Plan was submitted to MassDEP by Groundwater & Environmental Services, Inc. (GES) for the replacement of a damaged section of an underground sanitary sewer line on the undeveloped residential property (Map 151, Lot 13) east of the Mobil Station property.
August 7, 2004	A Phase IV RIP, an IRA Completion Statement (treatment system was previously operated as an IRA), and a ROS Opinion were submitted to MassDEP by CDM.
August 11, 2004	A URAM Completion Statement was submitted to MassDEP by GES. The affected sewer line was repaired using non-intrusive methods and no URAM activities were completed.
March 30, 2007	The groundwater recovery/AS/SVE treatment system is shut down and the MNA program is implemented at the Site under ROS.
September 2010	Global Companies LLC acquires property, and ECS becomes the consultant of record for the Disposal Site.
April 8, 2014	ECS submitted a RAM Plan for the proposed Site upgrade activities which included the excavation and removal of three gasoline USTs and installation of two new USTs in their place and the replacement of one of the fuel dispensers.
April 10, 2014	A 72-hour reportable condition was encountered when greater than 100 ppm TOVs was detected in soil samples collected in the immediate vicinity of the on-site USTs during UST removal and replacement activities. RTN 3-32096 was assigned to the condition.
April 2014	During the completion of the UST removal and soil excavation activities, a total of 756 tons of petroleum-impacted soil was transported off-site to Aggregate Recycling Corporation of Eliot, Maine. During excavation activities, a total of 60,700 gallons of groundwater was extracted from the UST grave, treated, and discharged to the municipal sewer system. Additionally, approximately 9,000-gallons of water was transported off-site to Newstream LLC of Attleboro, Massachusetts for treatment and disposal.
July 23, 2014	RTN 3-32096 was linked to RTN 3-3072 with the submittal of an IRA Completion Report.

ATTACHMENT II

ACRONYMS AND ABBREVIATIONS

Abbreviations and Acronyms

ACEC	Area of Critical Environmental Concern
ACO	Administrative Consent Order
ADC	Alternative Daily Cover
ADD	Average Daily Dose
ADE	Average Daily Exposure
AAI	All Appropriate Inquiry
AOC	Area of Concern
AWQC	Ambient Water Quality Criteria
APH	Air Petroleum Hydrocarbon
APS	Additional Polluting Substance
AS	Air Sparge
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
ATG	Automatic Tank Gauge
ATSDR	Agency for Toxic Substances and Disease Registry
AUL	Activity and Use Limitation
BMP	Best Management Practice
BOL	Bill of Lading
BOH	Board of Health
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
BUD	Beneficial Use Determination
CAM	Compendium of Analytical Methods
CEP	Critical Exposure Pathway
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
cfm	Cubic feet per minute
CMR	Code of Massachusetts Regulations
COC	Contaminant of Concern
ConCom	Conservation Commission
CORRACTS	Corrective Action Report
CRA	Comprehensive Remedial Action
CREC	Controlled Recognized Environmental Conditions
CSA	Comprehensive Site Assessment
CSF	Cancer Slope Factor
CSM	Conceptual Site Model
CTDEEP	Connecticut Department of Energy and Environmental Protection
CTDPH	Connecticut Department of Public Health
DEC (R/CI)	Direct Exposure Criteria (Residential/Commercial Industrial)
DEQE	Department of Environmental Quality Engineering
DNAPL	Dense Non-Aqueous Phase Liquid
DO	Dissolved Oxygen
DOS	Date of Service
DPS	Downgradient Property Status
DPW	Department of Public Works
DQA	Data Quality Assessment
DQO	Data Quality Objective
DUE	Data Usability Evaluation
DWSA	Drinking Water Source Area
ECS	Environmental Compliance Services, Inc.
EDB	Ethylene Dibromide
EDR	Environmental Data Resources Inc.
EDR Hist Auto	EDR Historical Automobile
EFR	Enhanced Fluid Recovery
ELCR	Excess Lifetime Cancer Risk
ELUR	Environmental Land Use Restriction
EP	Exposure Point
EPC	Exposure Point Concentration
EPH	Extractable Petroleum Hydrocarbons, MADEP Method 04-1.1
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
ETPH	Extractable Total Petroleum Hydrocarbons
EW	Extraction Well
fbg	Feet Below Grade
FIR	Final Inspection Report
frac tank	Fractionation Tank
ft	Foot
GA	Class GA Groundwater Classification Area
GAC	Granular Activated Carbon
GB	Class GB Groundwater Classification Area
GC/FID	Gas Chromatogram/Flame Ionization Detector
GIS	Geographic Information System
gpm	Gallons per minute
gpd	Gallons per Day
gpy	Gallons per Year
GPR	Ground Penetrating Radar
GW	Groundwater
GWPC	Ground Water Protection Criteria
GW P&T	Groundwater Pump and Treat
GWTS	Groundwater Treatment System
GW-1, GW-2, GW-3	MCP Method 1 Groundwater Categories
HI	Hazard Index
HITME	High Intensity Targeted Multi-Phase Extraction
hp	Horsepower
HREC	Historical Recognized Environmental Conditions
HW GEN	Hazardous Waste Generator
IAS	Indoor Air Sample
I/C DEC	Industrial/Commercial Direct Exposure Criteria
in. HG	inches of mercury
ID	Inside Diameter
IHE	Imminent Hazard Evaluation
IRA	Immediate Response Action
IRIS	Integrated Risk Information System
ISCO	In Situ Chemical Oxidation
IW	Injection Well
IWPA	Interim Wellhead Protection Area

Abbreviations and Acronyms

kg	Kilogram
LCSM	LNAPL Conceptual Site Model
LEL	Lower Explosive Limit
LEP	Licensed Environmental Professional
LGAC	Liquid-Phase Granular Activated Carbon
LNAPL	Light Non-Aqueous Phase Liquid
LRA	Limited Removal Action
LSI	Limited Subsurface Investigation
LSP	Licensed Site Professional
MBAS	Methyl Blue Active Substance
MCP	Massachusetts Contingency Plan
MDL	Method Detection Limit
M.G.L.c. 21E	Massachusetts General Law, chapter 21E
mg	milligram
mg/g	milligrams per gram
mg/m ³	milligrams per cubic meter
mg/L	milligrams per liter
MNA	Monitored Natural Attenuation
Mod	Modification
MPE	Multi-Phase Extraction
MSDS	Material Safety Data Sheet
MSR	Material Shipping Record and Log
msl	Mean Sea Level
MtBE	Methyl Tertiary Butyl Ether
MW	Monitoring Well
ND	Non-detect - not detected above instrument detection limit.
NFRAP	No Further Remedial Action Planned
ng/m ³	Nanogram per cubic meter
NGVD	National Geodetic Vertical Datum
NOAF	Notice of Audit Findings
NOI	Notice of Intent
NON	Notice of Noncompliance
NOR	Notice of Responsibility
NPDES	National Pollutant Discharge Elimination System
NPL	National Priority List
NRS	Numerical Ranking System
OD	Outside Diameter
OHM	Oil and Hazardous Materials
OMM	Operation, Maintenance and/or Monitoring
OOC	Order of Conditions
ORC	Oxygen Releasing Compound
ORP	Oxidation-Reduction Potential
ORS	MassDEP Office of Research and Standards
OSHA	Occupational Safety and Health Administration
OSWER	EPA Office of Solid Waste and Emergency Response
OWS	Oil Water Separator
PAH	Polynuclear Aromatic Hydrocarbon
PAOC	Potential Area of Concern
PARCSS	Precision, Accuracy, Representativeness, Comparability, Completeness and Sensitivity
PCB	Polychlorinated Biphenyl
PDWW	Private Drinking Water Well
PEL	Permissible Exposure Limit
Phase I	Phase I Initial Site Investigation
Phase I ESA	Phase I Environmental Site Assessment
Phase II CSA	Phase II Comprehensive Site Assessment
Phase II ESA	Phase II Environmental Site Assessment
Phase III RAP	Phase III Identification, Evaluation and Selection of Comprehensive Remedial Action Alternatives
Phase IV RIP	Phase IV – Implementation of Selected Remedial Action Alternative
PIANO	Parffin, isoparaffin, aromatic, naphthene, and olefin hydrocarbons
PID	Photoionization Detector
PMC	Pollutant Mobility Criteria
POET	Point of Entry Treatment
POTW	Publicly Owned Treatment Works
PPA	Potentially Productive Aquifer
ppb	Parts-per-Billion
ppm	Parts-per-Million
ppm(v)	Parts per million (by volume)
ppt	Parts per thousand
PRP	Potentially Responsible Party
PSS	Permanent Solution Statement
PVC	Polyvinyl Chloride
QAPP	Quality Assessment Project Plan
RAA	Remedial Action Alternative
RAF	Release Amendment Form
RAF's	Relative Absorption Factors
RAM	Release Abatement Measure
RAO	Response Action Outcome
RAP	Remedial Action Plan
RAPS	Response Action Performance Standards
RBC	Risk Based Concentration
RC	Risk Characterization
RCs	Reportable Concentrations
RCGW-1, RCGW-2 RCS-1, RCS	Reportable Concentration Groundwater/Soil Categories
RCP	Reasonable Confidence Protocols
RCRA	Resource Conservation and Recovery Act
RCSA	Regulations of Connecticut State Agencies
REC	Recognized Environmental Condition
RES DEC	Residential Direct Exposure Criteria
RES SAT	Residual Saturation
RTD	Reference Dose
RGP	Remedial General Permit
RIP	Remedy Implementation Plan
RMR	Remedial Monitoring Report
RLF	Release Log Form
RNF	Release Notification Form
ROS	Remedy Operation Status
RL	Reporting Limit

Abbreviations and Acronyms

ROS Report	Phase V Inspection and Monitoring Report in Support of ROS
RSR	Remediation Standard Regulations
RTN	Release Tracking Number
RVC	Residential Volatilization Criteria
RW	Recovery Well
Scfm	Standard cubic feet per minute
sf	Square Feet
S-1, S-2, S-3	MCP Method 1 Soil Categories
SHWS	State Hazardous Waste Site
SOP	Standard Operating Procedures
SOW	Scope-of-Work
SPLP	Synthetic Precipitation Leaching Procedure
SQG	Small Quantity Generator
SRM	Substantial Release Migration
SSDS	Sub-Slab Depressurization System
SVE	Soil Vapor Extraction
SVOC	Semi Volatile Organic Compound
SVVP	Soil Vapor Volatilization Criteria
SWPC	Surface Water Protection Criteria
SWQG	Surface Water Quality Guidance
TAC	Target Indoor Air Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TDA	Temporary Remedial Discharge Permit Authorization
TOC	Total Organic Carbon
TOR	Threat of Release
TOVs	Total Organic Vapors
TPH	Total Petroleum Hydrocarbons
UCL	Upper Concentration Limit
ug/g	micrograms per gram
ug/Kg	micrograms per kilogram
ug/L	micrograms per liter
ug/m ³	microgram per cubic meter
UHWMTN	Uniform Hazardous Waste Manifest
UHWMTN	Uniform Hazardous Waste Manifest Tracking Number
UR	Unit Risk
UST	Underground Storage Tank
USTCPA	Underground Storage Tank Petroleum Clean-Up Account
USTPCP	Underground Storage Tank Petroleum Clean-Up Account Program
UTM	Universal Transverse Mercator
Vactor	High Vacuum Extractor
VC	Volatilization Criteria
VEGE	Vacuum Enhanced Groundwater Extraction
VGAC	Vapor-Phase Granular Activated Carbon
VIP	Vapor Intrusion Pathway
VOC	Volatile Organic Compound
VPH	Volatile Petroleum Hydrocarbons, MADEP Method 04-1.1
WPA	Wetlands Protection Act
WWTP	Waste Water Treatment Plant

REGULATORY AGENCIES

BWSC	Bureau of Waste Site Cleanup
CTDEEP	Connecticut Department of Energy and Environmental Protection
CTDPH	Connecticut Department of Public Health
MassDEP	Massachusetts Department of Environmental Protection
MassDOT	Massachusetts Department of Transportation
MassDOR	Massachusetts Department of Revenue
MassGIS	Massachusetts Geographic Information System
NHESP	National Heritage & Endangered Species Program
RIDEM	Rhode Island Department of Environmental Management
USEPA	United States Environmental Protection Agency
USGS	United States Geologic Survey

SUBCONTRACTORS

ATC	ATC Group Services, LLC
CHI	Clean Harbors, Inc.
Cyn	Cyn Environmental Services, Inc., Stoughton, MA
Drilex	Drilex Environmental, West Boylston, MA
ECS	Environmental Compliance Services, Inc.
ESMI	Environmental Soil Management, Inc., Loudon, NH
Eurofins/Spectrum	Eurofins/Spectrum Analytical, Inc., Agawam, MA
Geolabs	Geolabs, Inc., Braintree, MA
Geosearch	Geosearch, Inc - Westminster, MA
LaMountain	LaMountain Brothers, Inc, Oxford, MA
New Hampshire Boring	New Hampshire Boring, Inc., Londonderry, NH
Ondrick	Ted Ondrick Company, LLC
STI	Service Tech, Inc.
Tanknology	Tanknology, Inc., Austin, TX

ATTACHMENT III

LABORATORY ANALYTICAL REPORTS

March 25, 2022

Pat Corcoran
ATC Group Services LLC - Woburn
10 State Street, Suite 100
Woburn, MA 01801

Project Location: 309 Lowell St., Andover, MA
Client Job Number:
Project Number: 9521488019
Laboratory Work Order Number: 22C1130

Enclosed are results of analyses for samples as received by the laboratory on March 17, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ATC Group Services LLC - Woburn
10 State Street, Suite 100
Woburn, MA 01801
ATTN: Pat Corcoran

REPORT DATE: 3/25/2022

PURCHASE ORDER NUMBER: Global

PROJECT NUMBER: 9521488019

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22C1130

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 309 Lowell St., Andover, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1	22C1130-01	Ground Water		EPA 300.0 MADEP-VPH-Feb 2018 Rev 2.1 RSK175 SW-846 6010D	
OW-13	22C1130-02	Ground Water		EPA 300.0 MADEP-VPH-Feb 2018 Rev 2.1 RSK175 SW-846 6010D	
OW-ED	22C1130-03	Ground Water		EPA 300.0 MADEP-VPH-Feb 2018 Rev 2.1 RSK175 SW-846 6010D	
MW-3	22C1130-04	Ground Water		EPA 300.0 MADEP-VPH-Feb 2018 Rev 2.1 RSK175 SW-846 6010D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

MADEP-VPH-Feb 2018 Rev 2.1**Qualifications:**

RL-14

Elevated reporting limit due to foaming sample matrix. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

22C1130-01[MW-1], 22C1130-01RE1[MW-1]

S-08

Duplicate analysis confirmed surrogate failure due to matrix effects.

Analyte & Samples(s) Qualified:**2,5-Dibromotoluene (FID)**

22C1130-01RE1[MW-1]

2,5-Dibromotoluene (PID)

22C1130-01RE1[MW-1]

S-19

Surrogate recovery is outside of control limits, matrix interference suspected. Reanalysis yielded similar surrogate non-conformance.

Analyte & Samples(s) Qualified:**2,5-Dibromotoluene (FID)**

22C1130-01[MW-1]

2,5-Dibromotoluene (PID)

22C1130-01[MW-1]

MADEP-VPH-Feb 2018 Rev 2.1

No significant modifications were made to the method. All VPH samples were received preserved properly at pH <2 in the proper containers as specified on the chain-of-custody form unless specified in this narrative.

Analytical column used for VPH analysis is Restek, Rtx-502.2, 105meter, 0.53mmID, 3um df. Trap used for VPH analysis is CarboSieve B/CarboSieveS-III.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: MW-1

Sampled: 3/16/2022 11:35

Sample ID: 22C1130-01

Sample Matrix: Ground Water

Sample Flags: RL-14

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	200	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 20:18	KMB
Unadjusted C5-C8 Aliphatics	ND	200	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 12:27	KMB
C5-C8 Aliphatics	ND	200	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 20:18	KMB
C5-C8 Aliphatics	ND	200	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 12:27	KMB
Unadjusted C9-C12 Aliphatics	ND	200	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 12:27	KMB
Unadjusted C9-C12 Aliphatics	ND	200	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 20:18	KMB
C9-C12 Aliphatics	ND	200	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 20:18	KMB
C9-C12 Aliphatics	ND	200	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 12:27	KMB
C9-C10 Aromatics	ND	200	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 20:18	KMB
C9-C10 Aromatics	ND	200	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 12:27	KMB
Benzene	ND	2.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 20:18	KMB
Benzene	ND	2.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 12:27	KMB
Ethylbenzene	ND	2.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 20:18	KMB
Ethylbenzene	ND	2.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 12:27	KMB
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 20:18	KMB
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 12:27	KMB
Naphthalene	ND	10	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 20:18	KMB
Naphthalene	ND	10	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 12:27	KMB
Toluene	ND	2.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 20:18	KMB
Toluene	ND	2.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 12:27	KMB
m+p Xylene	ND	4.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 20:18	KMB
m+p Xylene	ND	4.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 12:27	KMB
o-Xylene	ND	2.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 20:18	KMB
o-Xylene	ND	2.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	3/21/22	3/21/22 12:27	KMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2,5-Dibromotoluene (FID)	39.6	*	70-130		S-08		3/21/22	20:18	
2,5-Dibromotoluene (FID)	40.3	*	70-130		S-19		3/21/22	12:27	
2,5-Dibromotoluene (PID)	45.3	*	70-130		S-08		3/21/22	20:18	
2,5-Dibromotoluene (PID)	47.2	*	70-130		S-19		3/21/22	12:27	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: MW-1

Sampled: 3/16/2022 11:35

Sample ID: 22C1130-01

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methane	0.17	0.0070	mg/L	1		RSK175	3/22/22	3/22/22 13:42	TPH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: MW-1

Sampled: 3/16/2022 11:35

Sample ID: 22C1130-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Iron	11	0.050	mg/L	1		SW-846 6010D	3/23/22	3/24/22 17:23	QNW
Manganese	3.2	0.010	mg/L	1		SW-846 6010D	3/23/22	3/24/22 17:23	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: MW-1

Sampled: 3/16/2022 11:35

Sample ID: 22C1130-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Nitrate as N	ND	0.10	mg/L	1		EPA 300.0	3/17/22	3/17/22 21:47	EC
Sulfate	75	5.0	mg/L	5		EPA 300.0	3/19/22	3/19/22 23:07	IS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: OW-13

Sampled: 3/16/2022 12:30

Sample ID: 22C1130-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/19/22 1:17	KMB
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/19/22 1:17	KMB
Unadjusted C9-C12 Aliphatics	240	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/19/22 1:17	KMB
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/19/22 1:17	KMB
C9-C10 Aromatics	210	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/19/22 1:17	KMB
Benzene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/19/22 1:17	KMB
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/19/22 1:17	KMB
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/19/22 1:17	KMB
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/19/22 1:17	KMB
Toluene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/19/22 1:17	KMB
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/19/22 1:17	KMB
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/19/22 1:17	KMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2,5-Dibromotoluene (FID)	99.0	70-130						3/19/22 1:17	
2,5-Dibromotoluene (PID)	97.1	70-130						3/19/22 1:17	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: OW-13

Sampled: 3/16/2022 12:30

Sample ID: 22C1130-02

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methane	0.29	0.0070	mg/L	1		RSK175	3/22/22	3/22/22 13:56	TPH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: OW-13

Sampled: 3/16/2022 12:30

Sample ID: 22C1130-02

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Iron	4.9	0.050	mg/L	1		SW-846 6010D	3/23/22	3/24/22 17:28	QNW
Manganese	1.1	0.010	mg/L	1		SW-846 6010D	3/23/22	3/24/22 17:28	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: OW-13

Sampled: 3/16/2022 12:30

Sample ID: 22C1130-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Nitrate as N	0.73	0.10	mg/L	1		EPA 300.0	3/17/22	3/17/22 22:09	EC
Sulfate	31	1.0	mg/L	1		EPA 300.0	3/17/22	3/17/22 22:09	EC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: OW-ED

Sampled: 3/16/2022 10:10

Sample ID: 22C1130-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:25	KMB
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:25	KMB
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:25	KMB
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:25	KMB
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:25	KMB
Benzene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:25	KMB
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:25	KMB
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:25	KMB
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:25	KMB
Toluene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:25	KMB
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:25	KMB
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:25	KMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2,5-Dibromotoluene (FID)	71.5	70-130	
2,5-Dibromotoluene (PID)	83.8	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: OW-ED

Sampled: 3/16/2022 10:10

Sample ID: 22C1130-03

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methane	ND	0.0070	mg/L	1		RSK175	3/22/22	3/22/22 14:22	TPH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: OW-ED

Sampled: 3/16/2022 10:10

Sample ID: 22C1130-03

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Iron	0.051	0.050	mg/L	1		SW-846 6010D	3/23/22	3/24/22 17:35	QNW
Manganese	ND	0.010	mg/L	1		SW-846 6010D	3/23/22	3/24/22 17:35	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: OW-ED

Sampled: 3/16/2022 10:10

Sample ID: 22C1130-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Nitrate as N	0.22	0.10	mg/L	1		EPA 300.0	3/17/22	3/17/22 22:31	EC
Sulfate	40	1.0	mg/L	1		EPA 300.0	3/17/22	3/17/22 22:31	EC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: MW-3

Sampled: 3/16/2022 08:40

Sample ID: 22C1130-04

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:54	KMB
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:54	KMB
Unadjusted C9-C12 Aliphatics	150	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:54	KMB
C9-C12 Aliphatics	150	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:54	KMB
C9-C10 Aromatics	120	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:54	KMB
Benzene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:54	KMB
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:54	KMB
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:54	KMB
Naphthalene	5.6	5.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:54	KMB
Toluene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:54	KMB
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:54	KMB
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	3/18/22	3/18/22 18:54	KMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2,5-Dibromotoluene (FID)	124	70-130							
2,5-Dibromotoluene (PID)	121	70-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: MW-3

Sampled: 3/16/2022 08:40

Sample ID: 22C1130-04

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methane	0.061	0.0070	mg/L	1		RSK175	3/22/22	3/22/22 14:32	TPH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: MW-3

Sampled: 3/16/2022 08:40

Sample ID: 22C1130-04

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Iron	0.37	0.050	mg/L	1		SW-846 6010D	3/23/22	3/24/22 17:41	QNW
Manganese	0.12	0.010	mg/L	1		SW-846 6010D	3/23/22	3/24/22 17:41	QNW

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22C1130

Date Received: 3/17/2022

Field Sample #: MW-3

Sampled: 3/16/2022 08:40

Sample ID: 22C1130-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Nitrate as N	0.23	0.10	mg/L	1		EPA 300.0	3/17/22	3/17/22 22:53	EC
Sulfate	34	1.0	mg/L	1		EPA 300.0	3/17/22	3/17/22 22:53	EC

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Sample Extraction Data

Prep Method: EPA 300.0 Analytical Method: EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C1130-01 [MW-1]	B303491	10.0	10.0	03/17/22
22C1130-02 [OW-13]	B303491	10.0	10.0	03/17/22
22C1130-03 [OW-ED]	B303491	10.0	10.0	03/17/22
22C1130-04 [MW-3]	B303491	10.0	10.0	03/17/22

Prep Method: EPA 300.0 Analytical Method: EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C1130-02 [OW-13]	B303575	10.0	10.0	03/17/22
22C1130-03 [OW-ED]	B303575	10.0	10.0	03/17/22
22C1130-04 [MW-3]	B303575	10.0	10.0	03/17/22

Prep Method: EPA 300.0 Analytical Method: EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C1130-01 [MW-1]	B303617	10.0	10.0	03/19/22

Prep Method: MA VPH Analytical Method: MADEP-VPH-Feb 2018 Rev 2.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C1130-02 [OW-13]	B303551	5	5.00	03/18/22
22C1130-03 [OW-ED]	B303551	5	5.00	03/18/22
22C1130-04 [MW-3]	B303551	5	5.00	03/18/22

Prep Method: MA VPH Analytical Method: MADEP-VPH-Feb 2018 Rev 2.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C1130-01 [MW-1]	B303686	2.5	5.00	03/21/22

Prep Method: MA VPH Analytical Method: MADEP-VPH-Feb 2018 Rev 2.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C1130-01RE1 [MW-1]	B303687	2.5	5.00	03/21/22

Prep Method: RSK175 Analytical Method: RSK175

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C1130-01 [MW-1]	B303796	1.00	1.00	03/22/22
22C1130-02 [OW-13]	B303796	1.00	1.00	03/22/22
22C1130-03 [OW-ED]	B303796	1.00	1.00	03/22/22
22C1130-04 [MW-3]	B303796	1.00	1.00	03/22/22

Prep Method: SW-846 3005A Dissolved Analytical Method: SW-846 6010D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C1130-01 [MW-1]	B303938	50.0	50.0	03/23/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**Sample Extraction Data****Prep Method: SW-846 3005A Dissolved Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C1130-02 [OW-13]	B303938	50.0	50.0	03/23/22
22C1130-03 [OW-ED]	B303938	50.0	50.0	03/23/22
22C1130-04 [MW-3]	B303938	50.0	50.0	03/23/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B303551 - MA VPH
Blank (B303551-BLK1)

Prepared & Analyzed: 03/18/22

Unadjusted C5-C8 Aliphatics	ND	100	µg/L							
C5-C8 Aliphatics	ND	100	µg/L							
Unadjusted C9-C12 Aliphatics	ND	100	µg/L							
C9-C12 Aliphatics	ND	100	µg/L							
C9-C10 Aromatics	ND	100	µg/L							
Benzene	ND	1.0	µg/L							
Butylcyclohexane	ND	1.0	µg/L							
Decane	ND	1.0	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
2-Methylpentane	ND	1.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Nonane	ND	1.0	µg/L							
Pentane	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
2,2,4-Trimethylpentane	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 2,5-Dibromotoluene (FID)	41.9		µg/L	40.0		105	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	43.4		µg/L	40.0		109	70-130			

LCS (B303551-BS1)

Prepared & Analyzed: 03/18/22

Benzene	48.5	1.0	µg/L	50.0		96.9	70-130			
Butylcyclohexane	60.1	1.0	µg/L	50.0		120	70-130			
Decane	44.9	1.0	µg/L	50.0		89.9	70-130			
Ethylbenzene	49.5	1.0	µg/L	50.0		99.0	70-130			
Methyl tert-Butyl Ether (MTBE)	50.0	1.0	µg/L	50.0		100	70-130			
2-Methylpentane	46.9	1.0	µg/L	50.0		93.7	70-130			
Naphthalene	55.5	5.0	µg/L	50.0		111	70-130			
Nonane	60.6	1.0	µg/L	50.0		121	30-130			
Pentane	48.4	1.0	µg/L	50.0		96.8	70-130			
Toluene	48.3	1.0	µg/L	50.0		96.7	70-130			
1,2,4-Trimethylbenzene	48.5	1.0	µg/L	50.0		97.1	70-130			
2,2,4-Trimethylpentane	43.1	1.0	µg/L	50.0		86.2	70-130			
m+p Xylene	99.5	2.0	µg/L	100		99.5	70-130			
o-Xylene	48.2	1.0	µg/L	50.0		96.3	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	46.2		µg/L	40.0		116	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	41.2		µg/L	40.0		103	70-130			

LCS Dup (B303551-BSD1)

Prepared & Analyzed: 03/18/22

Benzene	46.7	1.0	µg/L	50.0		93.3	70-130	3.78	25	
Butylcyclohexane	59.2	1.0	µg/L	50.0		118	70-130	1.59	25	
Decane	43.5	1.0	µg/L	50.0		87.1	70-130	3.20	25	
Ethylbenzene	47.7	1.0	µg/L	50.0		95.3	70-130	3.82	25	
Methyl tert-Butyl Ether (MTBE)	51.1	1.0	µg/L	50.0		102	70-130	2.15	25	
2-Methylpentane	43.9	1.0	µg/L	50.0		87.9	70-130	6.47	25	
Naphthalene	56.7	5.0	µg/L	50.0		113	70-130	2.08	25	
Nonane	59.3	1.0	µg/L	50.0		119	30-130	2.05	25	
Pentane	45.0	1.0	µg/L	50.0		90.0	70-130	7.24	25	
Toluene	46.3	1.0	µg/L	50.0		92.7	70-130	4.21	25	
1,2,4-Trimethylbenzene	47.4	1.0	µg/L	50.0		94.9	70-130	2.27	25	

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QUALITY CONTROL
Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B303551 - MA VPH
LCS Dup (B303551-BSD1)

Prepared & Analyzed: 03/18/22

2,2,4-Trimethylpentane	41.1	1.0	µg/L	50.0		82.2	70-130	4.78	25	
m+p Xylene	95.8	2.0	µg/L	100		95.8	70-130	3.72	25	
o-Xylene	48.6	1.0	µg/L	50.0		97.2	70-130	0.922	25	
Surrogate: 2,5-Dibromotoluene (FID)	46.8		µg/L	40.0		117	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	46.9		µg/L	40.0		117	70-130			

Batch B303686 - MA VPH
Blank (B303686-BLK1)

Prepared & Analyzed: 03/21/22

Unadjusted C5-C8 Aliphatics	ND	100	µg/L							
C5-C8 Aliphatics	ND	100	µg/L							
Unadjusted C9-C12 Aliphatics	ND	100	µg/L							
C9-C12 Aliphatics	ND	100	µg/L							
C9-C10 Aromatics	ND	100	µg/L							
Benzene	ND	1.0	µg/L							
Butylcyclohexane	ND	1.0	µg/L							
Decane	ND	1.0	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
2-Methylpentane	ND	1.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Nonane	ND	1.0	µg/L							
Pentane	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
2,2,4-Trimethylpentane	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 2,5-Dibromotoluene (FID)	39.2		µg/L	40.0		98.1	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	37.6		µg/L	40.0		94.0	70-130			

LCS (B303686-BS1)

Prepared & Analyzed: 03/21/22

Benzene	49.3	1.0	µg/L	50.0		98.7	70-130			
Butylcyclohexane	64.2	1.0	µg/L	50.0		128	70-130			
Decane	48.8	1.0	µg/L	50.0		97.7	70-130			
Ethylbenzene	49.7	1.0	µg/L	50.0		99.5	70-130			
Methyl tert-Butyl Ether (MTBE)	51.1	1.0	µg/L	50.0		102	70-130			
2-Methylpentane	50.3	1.0	µg/L	50.0		101	70-130			
Naphthalene	53.9	5.0	µg/L	50.0		108	70-130			
Nonane	64.8	1.0	µg/L	50.0		130	30-130			
Pentane	50.5	1.0	µg/L	50.0		101	70-130			
Toluene	49.3	1.0	µg/L	50.0		98.7	70-130			
1,2,4-Trimethylbenzene	49.8	1.0	µg/L	50.0		99.6	70-130			
2,2,4-Trimethylpentane	50.4	1.0	µg/L	50.0		101	70-130			
m+p Xylene	101	2.0	µg/L	100		101	70-130			
o-Xylene	49.8	1.0	µg/L	50.0		99.6	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	44.5		µg/L	40.0		111	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	45.0		µg/L	40.0		112	70-130			

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QUALITY CONTROL
Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B303686 - MA VPH
LCS Dup (B303686-BSD1)

Prepared & Analyzed: 03/21/22

Benzene	46.1	1.0	µg/L	50.0		92.1	70-130	6.84	25	
Butylcyclohexane	60.7	1.0	µg/L	50.0		121	70-130	5.59	25	
Decane	44.4	1.0	µg/L	50.0		88.9	70-130	9.41	25	
Ethylbenzene	46.1	1.0	µg/L	50.0		92.2	70-130	7.52	25	
Methyl tert-Butyl Ether (MTBE)	49.3	1.0	µg/L	50.0		98.6	70-130	3.54	25	
2-Methylpentane	44.0	1.0	µg/L	50.0		88.1	70-130	13.2	25	
Naphthalene	51.2	5.0	µg/L	50.0		102	70-130	5.04	25	
Nonane	60.6	1.0	µg/L	50.0		121	30-130	6.74	25	
Pentane	45.0	1.0	µg/L	50.0		90.0	70-130	11.6	25	
Toluene	45.2	1.0	µg/L	50.0		90.4	70-130	8.69	25	
1,2,4-Trimethylbenzene	45.6	1.0	µg/L	50.0		91.3	70-130	8.70	25	
2,2,4-Trimethylpentane	43.2	1.0	µg/L	50.0		86.4	70-130	15.3	25	
m+p Xylene	93.6	2.0	µg/L	100		93.6	70-130	7.40	25	
o-Xylene	46.4	1.0	µg/L	50.0		92.8	70-130	7.00	25	
Surrogate: 2,5-Dibromotoluene (FID)	39.5		µg/L	40.0		98.8	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	41.5		µg/L	40.0		104	70-130			

Batch B303687 - MA VPH
Blank (B303687-BLK1)

Prepared & Analyzed: 03/21/22

Unadjusted C5-C8 Aliphatics	ND	100	µg/L							
C5-C8 Aliphatics	ND	100	µg/L							
Unadjusted C9-C12 Aliphatics	ND	100	µg/L							
C9-C12 Aliphatics	ND	100	µg/L							
C9-C10 Aromatics	ND	100	µg/L							
Benzene	ND	1.0	µg/L							
Butylcyclohexane	ND	1.0	µg/L							
Decane	ND	1.0	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
2-Methylpentane	ND	1.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Nonane	ND	1.0	µg/L							
Pentane	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
2,2,4-Trimethylpentane	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 2,5-Dibromotoluene (FID)	49.6		µg/L	40.0		124	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	40.2		µg/L	40.0		100	70-130			

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QUALITY CONTROL
Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B303687 - MA VPH
LCS (B303687-BS1)

Prepared & Analyzed: 03/21/22

Benzene	49.4	1.0	µg/L	50.0		98.8	70-130			
Butylcyclohexane	61.0	1.0	µg/L	50.0		122	70-130			
Decane	45.2	1.0	µg/L	50.0		90.3	70-130			
Ethylbenzene	50.4	1.0	µg/L	50.0		101	70-130			
Methyl tert-Butyl Ether (MTBE)	52.5	1.0	µg/L	50.0		105	70-130			
2-Methylpentane	47.4	1.0	µg/L	50.0		94.8	70-130			
Naphthalene	56.8	5.0	µg/L	50.0		114	70-130			
Nonane	61.0	1.0	µg/L	50.0		122	30-130			
Pentane	48.2	1.0	µg/L	50.0		96.4	70-130			
Toluene	49.2	1.0	µg/L	50.0		98.5	70-130			
1,2,4-Trimethylbenzene	49.2	1.0	µg/L	50.0		98.5	70-130			
2,2,4-Trimethylpentane	45.2	1.0	µg/L	50.0		90.4	70-130			
m+p Xylene	100	2.0	µg/L	100		100	70-130			
o-Xylene	50.1	1.0	µg/L	50.0		100	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	50.4		µg/L	40.0		126	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	46.1		µg/L	40.0		115	70-130			

LCS Dup (B303687-BSD1)

Prepared & Analyzed: 03/21/22

Benzene	47.2	1.0	µg/L	50.0		94.5	70-130	4.49	25	
Butylcyclohexane	59.3	1.0	µg/L	50.0		119	70-130	2.73	25	
Decane	42.7	1.0	µg/L	50.0		85.4	70-130	5.59	25	
Ethylbenzene	48.2	1.0	µg/L	50.0		96.4	70-130	4.51	25	
Methyl tert-Butyl Ether (MTBE)	49.6	1.0	µg/L	50.0		99.3	70-130	5.55	25	
2-Methylpentane	43.6	1.0	µg/L	50.0		87.2	70-130	8.39	25	
Naphthalene	53.0	5.0	µg/L	50.0		106	70-130	6.89	25	
Nonane	59.1	1.0	µg/L	50.0		118	30-130	3.12	25	
Pentane	45.1	1.0	µg/L	50.0		90.2	70-130	6.68	25	
Toluene	47.2	1.0	µg/L	50.0		94.4	70-130	4.20	25	
1,2,4-Trimethylbenzene	47.8	1.0	µg/L	50.0		95.6	70-130	2.97	25	
2,2,4-Trimethylpentane	41.8	1.0	µg/L	50.0		83.6	70-130	7.88	25	
m+p Xylene	96.7	2.0	µg/L	100		96.7	70-130	3.60	25	
o-Xylene	48.3	1.0	µg/L	50.0		96.6	70-130	3.77	25	
Surrogate: 2,5-Dibromotoluene (FID)	38.7		µg/L	40.0		96.8	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	38.9		µg/L	40.0		97.3	70-130			

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QUALITY CONTROL
Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B303796 - RSK175										
Blank (B303796-BLK1)				Prepared & Analyzed: 03/22/22						
Methane	ND	0.0070	mg/L							
LCS (B303796-BS1)				Prepared & Analyzed: 03/22/22						
Methane	0.17		mg/L	0.178		95.3	72.6-110			
Duplicate (B303796-DUP2)				Prepared & Analyzed: 03/22/22						
		Source: 22C1130-02								
Methane	0.294	0.0070	mg/L		0.289			1.75	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B303938 - SW-846 3005A Dissolved										
Blank (B303938-BLK1)				Prepared: 03/23/22 Analyzed: 03/24/22						
Iron	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							
LCS (B303938-BS1)				Prepared: 03/23/22 Analyzed: 03/24/22						
Iron	4.28	0.050	mg/L	4.00		107	80-120			
Manganese	0.523	0.010	mg/L	0.500		105	80-120			
LCS Dup (B303938-BSD1)				Prepared: 03/23/22 Analyzed: 03/24/22						
Iron	4.23	0.050	mg/L	4.00		106	80-120	1.24	20	
Manganese	0.519	0.010	mg/L	0.500		104	80-120	0.749	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B303491 - EPA 300.0										
Blank (B303491-BLK1)				Prepared & Analyzed: 03/17/22						
Nitrate as N	ND	0.10	mg/L							
LCS (B303491-BS1)				Prepared & Analyzed: 03/17/22						
Nitrate as N	0.94	0.10	mg/L	1.00		93.9	90-110			
LCS Dup (B303491-BSD1)				Prepared & Analyzed: 03/17/22						
Nitrate as N	0.94	0.10	mg/L	1.00		93.8	90-110	0.117	20	
Batch B303575 - EPA 300.0										
Blank (B303575-BLK1)				Prepared & Analyzed: 03/17/22						
Sulfate	ND	1.0	mg/L							
LCS (B303575-BS1)				Prepared & Analyzed: 03/17/22						
Sulfate	9.6	1.0	mg/L	10.0		95.7	90-110			
LCS Dup (B303575-BSD1)				Prepared & Analyzed: 03/17/22						
Sulfate	9.6	1.0	mg/L	10.0		95.9	90-110	0.219	20	
Batch B303617 - EPA 300.0										
Blank (B303617-BLK1)				Prepared & Analyzed: 03/19/22						
Sulfate	ND	1.0	mg/L							
LCS (B303617-BS1)				Prepared & Analyzed: 03/19/22						
Sulfate	9.8	1.0	mg/L	10.0		98.3	90-110			
LCS Dup (B303617-BSD1)				Prepared & Analyzed: 03/19/22						
Sulfate	9.6	1.0	mg/L	10.0		96.1	90-110	2.28	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
RL-14	Elevated reporting limit due to foaming sample matrix. MA CAM reporting limit not met.
S-08	Duplicate analysis confirmed surrogate failure due to matrix effects.
S-19	Surrogate recovery is outside of control limits, matrix interference suspected. Reanalysis yielded similar surrogate non-conformance.

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 300.0 in Water</i>	
Nitrate as N	NC,NY,MA,VA,ME,NH,CT,RI
Sulfate	NC,NY,MA,VA,ME,NH,CT,RI
<i>MADEP-VPH-Feb 2018 Rev 2.1 in Water</i>	
Unadjusted C5-C8 Aliphatics	CT,NC,ME,NH-P
C5-C8 Aliphatics	CT,NC,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C10 Aromatics	CT,NC,ME,NH-P
Benzene	CT,NC,ME,NH-P
Ethylbenzene	CT,NC,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,ME,NH-P
Naphthalene	CT,NC,ME,NH-P
Toluene	CT,NC,ME,NH-P
m+p Xylene	CT,NC,ME,NH-P
o-Xylene	CT,NC,ME,NH-P
<i>RSK175 in Water</i>	
Methane	VA,NY,ME
<i>SW-846 6010D in Water</i>	
Iron	CT,NH,NY,ME,NC,VA
Manganese	CT,NH,NY,ME,NC,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

Page 1 of 1

39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Atlas Technical Consultants LLC

10 State St., Ste. 100, Woburn, MA

Phone: 401-384-0042

Global Andover

309 Lowell St., Andover, MA

Project Number: 9521488019

Project Manager: patrick.corcoran@oneallias.com

Con-Test Quote Name/Number:

Invoice Recipient:

Sampled By: MACKIE HADGE

Con-Test Work Order#

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

Grab

Matrix Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

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Comments:

2 DISSOLVED FE + MN ARE FIELD FILTERED,
W/ 2 CONTAINERS/40L 2 PLASTIC W/ 1 NITRATE (SULFIDE)
METHAN 2 CELLULOSERS W/ 10L 1 FIELD FILTERED - HAS DISSOLVED

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Date/Time: 3/17/22

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples _____



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False
Statement will be brought to the attention of the Client - State True or False**

Client Atlas

Received By [Signature] Date 3/12/22 Time 1630

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 2.0
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? n/a Were Samples Tampered with? n/a
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client T Analysis T Sampler Name S
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____
Are there Rushes? F Who was notified? _____
Are there Short Holds? T Who was notified? Cassee

Is there enough Volume? F

Is there Headspace where applicable? F MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F

Do all samples have the proper pH? _____ Acid T Base n/a

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-	<u>16</u>	500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	<u>12</u>	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test, a Pace Analytical Laboratory		Project #: 22C1130	
Project Location: 309 Lowell St., Andover, MA		RTN:	
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)] 22C1130-01 thru 22C1130-04			
Matrices: Water			
CAM Protocol (check all that below)			
8260 VOC CAM II A ()	7470/7471 Hg CAM IIIB ()	MassDEP VPH (GC/PID/FID) CAM IV A (X)	8082 PCB CAM V A ()
9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	8270 SVOC CAM II B ()	7010 Metals CAM III C ()
MassDEP VPH (GC/MS) CAM IV C ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
6010 Metals CAM III A ()	6020 Metals CAM III D ()	MassDEP EPH CAM IV B ()	8151 Herbicides CAM V C ()
8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()		
Affirmative response to Questions A through F is required for "Presumptive Certainty" status			
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?		<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
A response to questions G, H and I below is required for "Presumptive Certainty" status			
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.			
H	Were all QC performance standards specified in the CAM protocol(s) achieved?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.			
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.			
Signature: <u>Lisa Worthington</u>		Position: <u>Technical Representative</u>	
Printed Name: <u>Lisa A. Worthington</u>		Date: <u>03/25/22</u>	

July 27, 2022

Pat Corcoran
ATC Group Services LLC - Woburn
10 State Street, Suite 100
Woburn, MA 01801

Project Location: 309 Lowell St., Andover, MA
Client Job Number:
Project Number: 9521488019
Laboratory Work Order Number: 22G0523

Enclosed are results of analyses for samples as received by the laboratory on July 11, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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ATC Group Services LLC - Woburn
10 State Street, Suite 100
Woburn, MA 01801
ATTN: Pat Corcoran

REPORT DATE: 7/27/2022

PURCHASE ORDER NUMBER: Global

PROJECT NUMBER: 9521488019

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22G0523

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 309 Lowell St., Andover, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1	22G0523-01	Ground Water		EPA 300.0 MADEP-VPH-Feb 2018 Rev 2.1 RSK175 SW-846 6010D	
OW-13	22G0523-02	Ground Water		EPA 300.0 MADEP-VPH-Feb 2018 Rev 2.1 RSK175 SW-846 6010D	
OW-ED	22G0523-03	Ground Water		EPA 300.0 MADEP-VPH-Feb 2018 Rev 2.1 RSK175 SW-846 6010D	
MW-3	22G0523-04	Ground Water		EPA 300.0 MADEP-VPH-Feb 2018 Rev 2.1 RSK175 SW-846 6010D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

MADEP-VPH-Feb 2018 Rev 2.1**Qualifications:**

RL-08

Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

22G0523-04[MW-3]

MADEP-VPH-Feb 2018 Rev 2.1

No significant modifications were made to the method. All VPH samples were received preserved properly at pH <2 in the proper containers as specified on the chain-of-custody form unless specified in this narrative.

Analytical column used for VPH analysis is Restek, Rtx-502.2, 105meter, 0.53mmID, 3um df. Trap used for VPH analysis is Carbopack B/CarboSieveS-III.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: MW-1

Sampled: 7/11/2022 09:00

Sample ID: 22G0523-01

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 16:53	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 16:53	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 16:53	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 16:53	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 16:53	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 16:53	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 16:53	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 16:53	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 16:53	EEH
Toluene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 16:53	EEH
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 16:53	EEH
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 16:53	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2,5-Dibromotoluene (FID)	96.0	70-130							
2,5-Dibromotoluene (PID)	102	70-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: MW-1

Sampled: 7/11/2022 09:00

Sample ID: 22G0523-01

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methane	0.34	0.0070	mg/L	1		RSK175	7/13/22	7/13/22 10:54	TPH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: MW-1

Sampled: 7/11/2022 09:00

Sample ID: 22G0523-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Iron	54	0.050	mg/L	1		SW-846 6010D	7/13/22	7/22/22 20:41	MJH
Manganese	7.7	0.010	mg/L	1		SW-846 6010D	7/13/22	7/22/22 20:41	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: MW-1

Sampled: 7/11/2022 09:00

Sample ID: 22G0523-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Nitrate as N	0.40	0.10	mg/L	1		EPA 300.0	7/11/22	7/11/22 21:20	CB2
Sulfate	38	1.0	mg/L	1		EPA 300.0	7/11/22	7/11/22 21:20	CB2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: OW-13

Sampled: 7/11/2022 09:50

Sample ID: 22G0523-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:52	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:52	EEH
Unadjusted C9-C12 Aliphatics	170	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:52	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:52	EEH
C9-C10 Aromatics	130	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:52	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:52	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:52	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:52	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:52	EEH
Toluene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:52	EEH
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:52	EEH
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:52	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2,5-Dibromotoluene (FID)	106	70-130							
2,5-Dibromotoluene (PID)	109	70-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: OW-13

Sampled: 7/11/2022 09:50

Sample ID: 22G0523-02

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methane	0.23	0.0070	mg/L	1		RSK175	7/13/22	7/13/22 11:09	TPH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: OW-13

Sampled: 7/11/2022 09:50

Sample ID: 22G0523-02

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Iron	2.8	0.050	mg/L	1		SW-846 6010D	7/13/22	7/22/22 20:47	MJH
Manganese	0.47	0.010	mg/L	1		SW-846 6010D	7/13/22	7/22/22 20:47	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: OW-13

Sampled: 7/11/2022 09:50

Sample ID: 22G0523-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Nitrate as N	ND	0.10	mg/L	1		EPA 300.0	7/11/22	7/11/22 22:27	CB2
Sulfate	20	1.0	mg/L	1		EPA 300.0	7/11/22	7/11/22 22:27	CB2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: OW-ED

Sampled: 7/11/2022 11:35

Sample ID: 22G0523-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:23	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:23	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:23	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:23	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:23	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:23	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:23	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:23	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:23	EEH
Toluene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:23	EEH
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:23	EEH
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 17:23	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2,5-Dibromotoluene (FID)	90.8	70-130						7/12/22 17:23	
2,5-Dibromotoluene (PID)	92.5	70-130						7/12/22 17:23	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: OW-ED

Sampled: 7/11/2022 11:35

Sample ID: 22G0523-03

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methane	ND	0.0070	mg/L	1		RSK175	7/13/22	7/13/22 11:35	TPH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: OW-ED

Sampled: 7/11/2022 11:35

Sample ID: 22G0523-03

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Iron	0.053	0.050	mg/L	1		SW-846 6010D	7/13/22	7/22/22 20:53	MJH
Manganese	ND	0.010	mg/L	1		SW-846 6010D	7/13/22	7/22/22 20:53	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: OW-ED

Sampled: 7/11/2022 11:35

Sample ID: 22G0523-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Nitrate as N	ND	0.10	mg/L	1		EPA 300.0	7/11/22	7/11/22 22:49	CB2
Sulfate	41	1.0	mg/L	1		EPA 300.0	7/11/22	7/11/22 22:49	CB2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: MW-3

Sampled: 7/11/2022 10:50

Sample ID: 22G0523-04

Sample Matrix: Ground Water

Sample Flags: RL-08

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	200	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 18:22	EEH
C5-C8 Aliphatics	ND	200	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 18:22	EEH
Unadjusted C9-C12 Aliphatics	ND	200	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 18:22	EEH
C9-C12 Aliphatics	ND	200	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 18:22	EEH
C9-C10 Aromatics	ND	200	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 18:22	EEH
Benzene	ND	2.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 18:22	EEH
Ethylbenzene	ND	2.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 18:22	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 18:22	EEH
Naphthalene	ND	10	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 18:22	EEH
Toluene	ND	2.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 18:22	EEH
m+p Xylene	ND	4.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 18:22	EEH
o-Xylene	ND	2.0	µg/L	2		MADEP-VPH-Feb 2018 Rev 2.1	7/12/22	7/12/22 18:22	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2,5-Dibromotoluene (FID)	89.4	70-130							
2,5-Dibromotoluene (PID)	108	70-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: MW-3

Sampled: 7/11/2022 10:50

Sample ID: 22G0523-04

Sample Matrix: Ground Water

Miscellaneous Organic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methane	1.6	0.0070	mg/L	1		RSK175	7/13/22	7/13/22 11:48	TPH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: MW-3

Sampled: 7/11/2022 10:50

Sample ID: 22G0523-04

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Iron	4.2	0.050	mg/L	1		SW-846 6010D	7/13/22	7/22/22 21:12	MJH
Manganese	0.11	0.010	mg/L	1		SW-846 6010D	7/13/22	7/22/22 21:12	MJH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 309 Lowell St., Andover, MA

Sample Description:

Work Order: 22G0523

Date Received: 7/11/2022

Field Sample #: MW-3

Sampled: 7/11/2022 10:50

Sample ID: 22G0523-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Nitrate as N	ND	0.10	mg/L	1		EPA 300.0	7/11/22	7/11/22 23:12	CB2
Sulfate	20	1.0	mg/L	1		EPA 300.0	7/11/22	7/11/22 23:12	CB2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 300.0 Analytical Method: EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G0523-01 [MW-1]	B312723	10.0	10.0	07/11/22
22G0523-02 [OW-13]	B312723	10.0	10.0	07/11/22
22G0523-03 [OW-ED]	B312723	10.0	10.0	07/11/22
22G0523-04 [MW-3]	B312723	10.0	10.0	07/11/22

Prep Method: EPA 300.0 Analytical Method: EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G0523-01 [MW-1]	B312799	10.0	10.0	07/11/22
22G0523-02 [OW-13]	B312799	10.0	10.0	07/11/22
22G0523-03 [OW-ED]	B312799	10.0	10.0	07/11/22
22G0523-04 [MW-3]	B312799	10.0	10.0	07/11/22

Prep Method: MA VPH Analytical Method: MADEP-VPH-Feb 2018 Rev 2.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G0523-01 [MW-1]	B312758	5	5.00	07/12/22
22G0523-02 [OW-13]	B312758	5	5.00	07/12/22
22G0523-03 [OW-ED]	B312758	5	5.00	07/12/22
22G0523-04 [MW-3]	B312758	2.5	5.00	07/12/22

Prep Method: RSK175 Analytical Method: RSK175

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G0523-01 [MW-1]	B312888	1.00	1.00	07/13/22
22G0523-02 [OW-13]	B312888	1.00	1.00	07/13/22
22G0523-03 [OW-ED]	B312888	1.00	1.00	07/13/22
22G0523-04 [MW-3]	B312888	1.00	1.00	07/13/22

Prep Method: SW-846 3005A Dissolved Analytical Method: SW-846 6010D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G0523-01 [MW-1]	B312914	5.00	5.00	07/13/22
22G0523-02 [OW-13]	B312914	5.00	5.00	07/13/22
22G0523-03 [OW-ED]	B312914	5.00	5.00	07/13/22
22G0523-04 [MW-3]	B312914	5.00	5.00	07/13/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B312758 - MA VPH
Blank (B312758-BLK1)

Prepared & Analyzed: 07/12/22

Unadjusted C5-C8 Aliphatics	ND	100	µg/L							
C5-C8 Aliphatics	ND	100	µg/L							
Unadjusted C9-C12 Aliphatics	ND	100	µg/L							
C9-C12 Aliphatics	ND	100	µg/L							
C9-C10 Aromatics	ND	100	µg/L							
Benzene	ND	1.0	µg/L							
Butylcyclohexane	ND	1.0	µg/L							
Decane	ND	1.0	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
2-Methylpentane	ND	1.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Nonane	ND	1.0	µg/L							
Pentane	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
2,2,4-Trimethylpentane	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 2,5-Dibromotoluene (FID)	36.1		µg/L	40.0		90.2	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	38.0		µg/L	40.0		95.0	70-130			

LCS (B312758-BS1)

Prepared & Analyzed: 07/12/22

Benzene	44.3	1.0	µg/L	50.0		88.6	70-130			
Butylcyclohexane	61.0	1.0	µg/L	50.0		122	70-130			
Decane	45.8	1.0	µg/L	50.0		91.7	70-130			
Ethylbenzene	46.0	1.0	µg/L	50.0		92.0	70-130			
Methyl tert-Butyl Ether (MTBE)	46.9	1.0	µg/L	50.0		93.8	70-130			
2-Methylpentane	45.5	1.0	µg/L	50.0		91.0	70-130			
Naphthalene	45.7	5.0	µg/L	50.0		91.3	70-130			
Nonane	63.6	1.0	µg/L	50.0		127	30-130			
Pentane	44.7	1.0	µg/L	50.0		89.5	70-130			
Toluene	44.1	1.0	µg/L	50.0		88.1	70-130			
1,2,4-Trimethylbenzene	44.2	1.0	µg/L	50.0		88.5	70-130			
2,2,4-Trimethylpentane	45.8	1.0	µg/L	50.0		91.7	70-130			
m+p Xylene	90.1	2.0	µg/L	100		90.1	70-130			
o-Xylene	44.7	1.0	µg/L	50.0		89.5	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	40.5		µg/L	40.0		101	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	43.0		µg/L	40.0		107	70-130			

LCS Dup (B312758-BSD1)

Prepared & Analyzed: 07/12/22

Benzene	43.5	1.0	µg/L	50.0		87.0	70-130	1.81	25	
Butylcyclohexane	59.9	1.0	µg/L	50.0		120	70-130	1.83	25	
Decane	44.1	1.0	µg/L	50.0		88.3	70-130	3.80	25	
Ethylbenzene	45.2	1.0	µg/L	50.0		90.4	70-130	1.75	25	
Methyl tert-Butyl Ether (MTBE)	46.0	1.0	µg/L	50.0		92.0	70-130	1.96	25	
2-Methylpentane	44.0	1.0	µg/L	50.0		88.0	70-130	3.34	25	
Naphthalene	44.8	5.0	µg/L	50.0		89.6	70-130	1.95	25	
Nonane	60.1	1.0	µg/L	50.0		120	30-130	5.69	25	
Pentane	43.0	1.0	µg/L	50.0		86.0	70-130	3.95	25	
Toluene	42.5	1.0	µg/L	50.0		85.0	70-130	3.55	25	
1,2,4-Trimethylbenzene	43.4	1.0	µg/L	50.0		86.8	70-130	1.90	25	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B312758 - MA VPH
LCS Dup (B312758-BSD1)

Prepared & Analyzed: 07/12/22

2,2,4-Trimethylpentane	45.2	1.0	µg/L	50.0		90.4	70-130	1.39	25	
m+p Xylene	85.7	2.0	µg/L	100		85.7	70-130	4.97	25	
o-Xylene	42.9	1.0	µg/L	50.0		85.9	70-130	4.10	25	
Surrogate: 2,5-Dibromotoluene (FID)	35.4		µg/L	40.0		88.5	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	38.3		µg/L	40.0		95.7	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B312888 - RSK175										
Blank (B312888-BLK1)				Prepared & Analyzed: 07/13/22						
Methane	ND	0.0070	mg/L							
LCS (B312888-BS1)				Prepared & Analyzed: 07/13/22						
Methane	0.16		mg/L	0.180		90.7	72.6-110			
Duplicate (B312888-DUP1)				Prepared & Analyzed: 07/13/22						
Methane	0.338	0.0070	mg/L		0.339			0.130	20	

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QUALITY CONTROL
Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B312914 - SW-846 3005A Dissolved
Blank (B312914-BLK1)

Prepared: 07/13/22 Analyzed: 07/22/22

Iron	ND	0.050	mg/L							
Manganese	ND	0.010	mg/L							

LCS (B312914-BS1)

Prepared: 07/13/22 Analyzed: 07/22/22

Iron	2.07	0.050	mg/L	2.00		104	80-120			
Manganese	2.08	0.010	mg/L	2.00		104	80-120			

Duplicate (B312914-DUP1)
Source: 22G0523-01

Prepared: 07/13/22 Analyzed: 07/22/22

Iron	53.9	0.050	mg/L		53.6			0.484	20	
Manganese	7.68	0.010	mg/L		7.69			0.0669	20	

Matrix Spike (B312914-MS1)
Source: 22G0523-01

Prepared: 07/13/22 Analyzed: 07/22/22

Iron	68.6	0.051	mg/L	16.3	53.6	91.7	75-125			
Manganese	9.68	0.010	mg/L	2.04	7.69	97.5	75-125			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch B312723 - EPA 300.0									
Blank (B312723-BLK1)				Prepared & Analyzed: 07/11/22					
Nitrate as N	ND	0.10	mg/L						
LCS (B312723-BS1)				Prepared & Analyzed: 07/11/22					
Nitrate as N	0.96	0.10	mg/L	1.00		95.8	90-110		
LCS Dup (B312723-BSD1)				Prepared & Analyzed: 07/11/22					
Nitrate as N	0.96	0.10	mg/L	1.00		96.3	90-110	0.552	20
Batch B312799 - EPA 300.0									
Blank (B312799-BLK1)				Prepared & Analyzed: 07/11/22					
Sulfate	ND	1.0	mg/L						
LCS (B312799-BS1)				Prepared & Analyzed: 07/11/22					
Sulfate	10	1.0	mg/L	10.0		104	90-110		
LCS Dup (B312799-BSD1)				Prepared & Analyzed: 07/11/22					
Sulfate	10	1.0	mg/L	10.0		104	90-110	0.438	20

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
RL-08	Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 300.0 in Water</i>	
Nitrate as N	NC,NY,MA,VA,ME,NH,CT,RI
Sulfate	NC,NY,MA,VA,ME,NH,CT,RI
<i>MADEP-VPH-Feb 2018 Rev 2.1 in Water</i>	
Unadjusted C5-C8 Aliphatics	CT,NC,ME,NH-P
C5-C8 Aliphatics	CT,NC,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C10 Aromatics	CT,NC,ME,NH-P
Benzene	CT,NC,ME,NH-P
Ethylbenzene	CT,NC,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,ME,NH-P
Naphthalene	CT,NC,ME,NH-P
Toluene	CT,NC,ME,NH-P
m+p Xylene	CT,NC,ME,NH-P
o-Xylene	CT,NC,ME,NH-P
<i>RSK175 in Water</i>	
Methane	VA,NY,ME
<i>SW-846 6010D in Water</i>	
Iron	CT,NH,NY,ME,NC,VA
Manganese	CT,NH,NY,ME,NC,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
NC-DW	North Carolina Department of Health and Human Services	25703	07/31/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples _____

Pace

Doc# 277 Rev 5 2017

Pace

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False
Statement will be brought to the attention of the Client - State True or False

Client ATC
Received By ca Date 7/11/22 Time 1440
How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____
Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp -2.0
By Blank # _____ Actual Temp _____
Was Custody Seal Intact? MA Were Samples Tampered with? MA
Was COC Relinquished? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? _____
Are there Rushes? F Who was notified? _____
Are there Short Holds? T Who was notified? Fabiola
Is there enough Volume? T
Is there Headspace where applicable? F MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F
Do all samples have the proper pH? _____ Acid T Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-	<u>16</u>	500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test, a Pace Analytical Laboratory		Project #: 22G0523	
Project Location: 309 Lowell St., Andover, MA		RTN:	
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)] 22G0523-01 thru 22G0523-04			
Matrices: Water			
CAM Protocol (check all that below)			
8260 VOC CAM II A ()	7470/7471 Hg CAM IIIB ()	MassDEP VPH (GC/PID/FID) CAM IV A (X)	8082 PCB CAM V A ()
9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	8270 SVOC CAM II B ()	7010 Metals CAM III C ()
MassDEP VPH (GC/MS) CAM IV C ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
6010 Metals CAM III A ()	6020 Metals CAM III D ()	MassDEP EPH CAM IV B ()	8151 Herbicides CAM V C ()
8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()		
Affirmative response to Questions A through F is required for "Presumptive Certainty" status			
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?		<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
A response to questions G, H and I below is required for "Presumptive Certainty" status			
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.			
H	Were all QC performance standards specified in the CAM protocol(s) achieved?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.			
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.			
Signature: <u>Lisa Worthington</u>		Position: <u>Technical Representative</u>	
Printed Name: <u>Lisa A. Worthington</u>		Date: <u>07/27/22</u>	

ATTACHMENT IV

COPIES OF PUBLIC INVOLVEMENT DOCUMENTATION



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Memorial Hall Library

Elm Square
2 North Main Street
Andover, MA 01810

**SUBJECT: Phase V ROS Status Report
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072**

To Whom It May Concern:

Pursuant to the Massachusetts Contingency Plan (MCP) 310 CMR 40.1405 and the Public Involvement Plan (PIP) dated April 21, 1999, ATC Group Services LLC dba Atlas Technical (Atlas) has prepared this letter on behalf of Global Companies LLC (Global) to inform you that a Phase V Remedy Operation Status (ROS) status report was submitted to the Massachusetts Department of Environmental Protection (MassDEP) on August 24, 2022. The report was submitted to the MassDEP for Release Tracking Number (RTN) 3-3072 assigned to the commercial property located at 309 Lowell Street, Andover, Massachusetts.

A copy of the Phase V ROS status report is included for your files, as you are a designated document repository in accordance with the PIP. Notifications of the availability of this document will be forwarded to the parties on the PIP mailing list.

If you should have any questions concerning this submittal, please do not hesitate to contact our office.

Sincerely,

ATLAS TECHNICAL

A handwritten signature in blue ink, appearing to read "Patrick D. Corcoran", written over a light blue horizontal line.

Patrick D. Corcoran, LSP
Senior Project Manager

cc: Town of Andover Board of Health

Attachment: ROS Status Report



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Town of Andover Board of Health

36 Bartlet Street
Andover, MA 01810

**SUBJECT: Phase V ROS Status Report
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072**

To Whom It May Concern:

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Sincerely,

ATLAS TECHNICAL

A handwritten signature in blue ink, appearing to read "Patrick D. Corcoran", written over a light blue horizontal line.

Patrick D. Corcoran, LSP
Senior Project Manager

Attachment: ROS Status Report



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Deputy Assistant Commissioner

BWSC

MassDEP

One Winter Street

Boston, MA 02108

**SUBJECT: Notice of Document Availability
 Mobil Station #1436
 Global Companies LLC
 309 Lowell Street, Andover, MA
 MassDEP RTN 3-3072**

To Whom It May Concern:

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Should you wish to view the Phase V ROS report, copies were submitted to the following document repositories in accordance with the PIP.

Memorial Hall Library
Elm Square
Andover, MA 01810
Tel: (978) 623-8400

Department of Community Development
and Planning
Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

The Andover Townsman
Editorial Department
33 Chestnut Street
Andover, MA 01810

SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072

To Whom It May Concern:

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Department of Community Development
and Planning
Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
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August 24, 2022
ATC Project #95-214880

Town of Andover Board of Selectmen

Town of Andover
36 Bartlet Street
Andover, MA 01810

**SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072**

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Andover, MA 01810
Tel: (978) 623-8400

Department of Community Development
and Planning
Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
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August 24, 2022
ATC Project #95-214880

Conservation Law Foundation of New England

62 Summer Street
Boston, MA 02108

**SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072**

To Whom It May Concern:

Pursuant to the Massachusetts Contingency Plan (MCP, 310 CMR 40.01405) and the Public Involvement Plan (PIP) dated April 21, 1999, ATC Group Services LLC dba Atlas Technical (Atlas) has prepared this letter on behalf of Global Companies LLC (Global) to inform you that a Phase V Remedy Operation Status (ROS) report was submitted to the Massachusetts Department of Environmental Protection (MassDEP) on August 24, 2022. The report was submitted to the MassDEP for Release Tracking Number (RTN) 3-3072 assigned to the commercial property located at 309 Lowell Street, Andover, MA.

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Memorial Hall Library
Elm Square
Andover, MA 01810
Tel: (978) 623-8400

Department of Community Development
and Planning
Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Mr. Mark Curtin
67 Abbott Street
Andover, MA 01810

**SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072**

Dear Mr. Curtin:

Pursuant to the Massachusetts Contingency Plan (MCP, 310 CMR 40.01405) and the Public Involvement Plan (PIP) dated April 21, 1999, ATC Group Services LLC dba Atlas Technical (Atlas) has prepared this letter on behalf of Global Companies LLC (Global) to inform you that a Phase V Remedy Operation Status (ROS) report was submitted to the Massachusetts Department of Environmental Protection (MassDEP) on August 24, 2022. The report was submitted to the MassDEP for Release Tracking Number (RTN) 3-3072 assigned to the commercial property located at 309 Lowell Street, Andover, MA.

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Memorial Hall Library
Elm Square
Andover, MA 01810
Tel: (978) 623-8400

Department of Community Development
and Planning
Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Mr. and Mrs. Frank Firicano
110 Abbot Street
Andover, MA 01810

**SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072**

Dear Mr. and Mrs. Firicano:

Pursuant to the Massachusetts Contingency Plan (MCP, 310 CMR 40.01405) and the Public Involvement Plan (PIP) dated April 21, 1999, ATC Group Services LLC dba Atlas Technical (Atlas) has prepared this letter on behalf of Global Companies LLC (Global) to inform you that a Phase V Remedy Operation Status (ROS) report was submitted to the Massachusetts Department of Environmental Protection (MassDEP) on August 24, 2022. The report was submitted to the MassDEP for Release Tracking Number (RTN) 3-3072 assigned to the commercial property located at 309 Lowell Street, Andover, MA.

Should you wish to view the Phase V ROS report, copies were submitted to the following document repositories in accordance with the PIP.

Memorial Hall Library
Elm Square
Andover, MA 01810
Tel: (978) 623-8400

Department of Community Development
and Planning
Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Ms. Kaija Gilmore
83 Elm Street
Andover, MA 01810

**SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072**

Dear Ms. Gilmore:

Pursuant to the Massachusetts Contingency Plan (MCP, 310 CMR 40.01405) and the Public Involvement Plan (PIP) dated April 21, 1999, ATC Group Services LLC dba Atlas Technical (Atlas) has prepared this letter on behalf of Global Companies LLC (Global) to inform you that a Phase V Remedy Operation Status (ROS) report was submitted to the Massachusetts Department of Environmental Protection (MassDEP) on August 24, 2022. The report was submitted to the MassDEP for Release Tracking Number (RTN) 3-3072 assigned to the commercial property located at 309 Lowell Street, Andover, MA.

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Memorial Hall Library
Elm Square
Andover, MA 01810
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Department of Community Development
and Planning
Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Mr. Donald Cooper
Andover Conservation Commission
36 Bartlet Street
Andover, MA 01810

SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072

Dear Mr. Cooper:

Pursuant to the Massachusetts Contingency Plan (MCP, 310 CMR 40.01405) and the Public Involvement Plan (PIP) dated April 21, 1999, ATC Group Services LLC dba Atlas Technical (Atlas) has prepared this letter on behalf of Global Companies LLC (Global) to inform you that a Phase V Remedy Operation Status (ROS) report was submitted to the Massachusetts Department of Environmental Protection (MassDEP) on August 24, 2022. The report was submitted to the MassDEP for Release Tracking Number (RTN) 3-3072 assigned to the commercial property located at 309 Lowell Street, Andover, MA.

Should you wish to view the Phase V ROS report, copies were submitted to the following document repositories in accordance with the PIP.

Memorial Hall Library
Elm Square
Andover, MA 01810
Tel: (978) 623-8400

Department of Community Development
and Planning
Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Mr. Ronald Hill
15 Abbott Street
Andover, MA 01810

**SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072**

Dear Mr. Hill:

Pursuant to the Massachusetts Contingency Plan (MCP, 310 CMR 40.01405) and the Public Involvement Plan (PIP) dated April 21, 1999, ATC Group Services LLC dba Atlas Technical (Atlas) has prepared this letter on behalf of Global Companies LLC (Global) to inform you that a Phase V Remedy Operation Status (ROS) report was submitted to the Massachusetts Department of Environmental Protection (MassDEP) on August 24, 2022. The report was submitted to the MassDEP for Release Tracking Number (RTN) 3-3072 assigned to the commercial property located at 309 Lowell Street, Andover, MA.

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and Planning
Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

**Lawrence Eagle Tribune
News Room**

P.O. Box 100
Lawrence, MA 01842

**SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072**

To Whom It May Concern:

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Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Mr. Scott Matsumoto
15 Windemere Drive
Andover, MA 01810

**SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072**

Dear Mr. Matsumoto:

Pursuant to the Massachusetts Contingency Plan (MCP, 310 CMR 40.01405) and the Public Involvement Plan (PIP) dated April 21, 1999, ATC Group Services LLC dba Atlas Technical (Atlas) has prepared this letter on behalf of Global Companies LLC (Global) to inform you that a Phase V Remedy Operation Status (ROS) report was submitted to the Massachusetts Department of Environmental Protection (MassDEP) on August 24, 2022. The report was submitted to the MassDEP for Release Tracking Number (RTN) 3-3072 assigned to the commercial property located at 309 Lowell Street, Andover, MA.

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and Planning
Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Merrimack River Watershed Council

60 Island Street, #2
Lawrence, MA 01842

**SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072**

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and Planning
Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Merrimack Valley Planning Commission

160 Main Street
Haverhill, MA 01830

**SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072**

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Department of Community Development
and Planning
Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Mr. James Paul
Lowell Street Investments
1 Washington Street, Suite 400
Wellesley, MA 02481

SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072

Dear Mr. Paul:

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Department of Community Development
and Planning
Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Mr. Jack Petkus
Town of Andover Department of Public Works
Water Treatment Plant
397 Lowell Street
Andover, MA 01810

SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072

Dear Mr. Petkus:

Pursuant to the Massachusetts Contingency Plan (MCP, 310 CMR 40.01405) and the Public Involvement Plan (PIP) dated April 21, 1999, ATC Group Services LLC dba Atlas Technical (Atlas) has prepared this letter on behalf of Global Companies LLC (Global) to inform you that a Phase V Remedy Operation Status (ROS) report was submitted to the Massachusetts Department of Environmental Protection (MassDEP) on August 24, 2022. The report was submitted to the MassDEP for Release Tracking Number (RTN) 3-3072 assigned to the commercial property located at 309 Lowell Street, Andover, MA.

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Department of Community Development
and Planning
Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Mr. Robert Douglas
Town of Andover Conservation Commission
36 Bartlet Street
Andover, MA 01810

SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072

Dear Mr. Douglas:

Pursuant to the Massachusetts Contingency Plan (MCP, 310 CMR 40.01405) and the Public Involvement Plan (PIP) dated April 21, 1999, ATC Group Services LLC dba Atlas Technical (Atlas) has prepared this letter on behalf of Global Companies LLC (Global) to inform you that a Phase V Remedy Operation Status (ROS) report was submitted to the Massachusetts Department of Environmental Protection (MassDEP) on August 24, 2022. The report was submitted to the MassDEP for Release Tracking Number (RTN) 3-3072 assigned to the commercial property located at 309 Lowell Street, Andover, MA.

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Department of Community Development
and Planning
Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Residents
3 Nab Hill Circle
Andover, MA 01810

SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072

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Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Ms. Karen Stromberg
BWSC
MassDEP
One Winter Street
Boston, MA 02108

SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072

Dear Ms. Stromberg:

Pursuant to the Massachusetts Contingency Plan (MCP, 310 CMR 40.01405) and the Public Involvement Plan (PIP) dated April 21, 1999, ATC Group Services LLC dba Atlas Technical (Atlas) has prepared this letter on behalf of Global Companies LLC (Global) to inform you that a Phase V Remedy Operation Status (ROS) report was submitted to the Massachusetts Department of Environmental Protection (MassDEP) on August 24, 2022. The report was submitted to the MassDEP for Release Tracking Number (RTN) 3-3072 assigned to the commercial property located at 309 Lowell Street, Andover, MA.

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Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager



10 State Street, Suite 10
Woburn, MA 01801
781.932.9400 | oneatlas.com

August 24, 2022
ATC Project #95-214880

Town of Andover Department of Community Development and Planning

36 Bartlet Street
Andover, MA 01810

**SUBJECT: Notice of Document Availability
Mobil Station #1436
Global Companies LLC
309 Lowell Street, Andover, MA
MassDEP RTN 3-3072**

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Board of Health Department
36 Bartlett Street
Andover, MA 01810
Tel: (978) 623-8295

Sincerely,

ATLAS TECHNICAL

Patrick D. Corcoran, LSP
Senior Project Manager

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